

10/520,378

(FILE 'HOME' ENTERED AT 12:27:23 ON 07 NOV 2005)

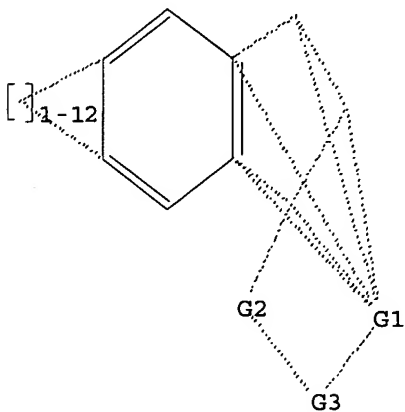
FILE 'REGISTRY' ENTERED AT 12:27:44 ON 07 NOV 2005

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 Hf,Ti,Zr

G2 C,Si,Ge

G3 O,S,N,P

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:28:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 244 TO ITERATE

100.0% PROCESSED 244 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 3943 TO 5817

PROJECTED ANSWERS: 7 TO 298

L2 7 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 12:28:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4648 TO ITERATE

100.0% PROCESSED 4648 ITERATIONS

176 ANSWERS

SEARCH TIME: 00.00.01

L3 176 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.76

161.97

FILE 'CAPLUS' ENTERED AT 12:28:47 ON 07 NOV 2005

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FILE COVERS 1907 - 7 Nov 2005 VOL 143 ISS 20
FILE LAST UPDATED: 6 Nov 2005 (20051106/ED)

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<http://www.cas.org/infopolicy.html>

=> s 13

L4 55 L3

=> d 1-55 bib abs

L4 ANSWER 1 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:1042303 CAPLUS

DN 143:347605

TI Catalyst composition comprising shuttling agent for ethylene multi-block copolymer formation

IN Arriola, Daniel J.; Carnahan, Edmund M.; Cheung, Yunwa W.; Devore, David D.; Graf, David D.; Hustad, Phillip D.; Kuhlman, Roger L.; Shan, Colin Li Pi; Poon, Benjamin C.; Roof, Gordon R.; Stevens, James C.; Stirn, Pamela J.; Wenzel, Timothy T.

PA Dow Global Technologies Inc., USA

SO PCT Int. Appl., 195 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005090427	A2	20050929	WO 2005-US8917	20050317
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2004-553906P P 20040317

AB A composition comprises the admixt. or reaction product resulting from combining: (A) a first olefin polymerization catalyst, (B) a second olefin polymerization catalyst capable of preparing polymers differing in chemical or phys. properties from the polymer prepared by catalyst (A) under equivalent polymerization conditions, and (C) a chain shuttling agent. The composition may comprise a multi-block copolymer which contains two or more segments or blocks differing in chemical or phys. properties.

L4 ANSWER 2 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:668527 CAPLUS

DN 143:326440

TI Synthesis and characterization of sterically expanded ansa-η¹-fluorenyl-amido complexes

AU Irwin, Levi J.; Reibenspies, Joseph H.; Miller, Stephen A.

CS Department of Chemistry, Texas A&M University, College Station, TX, 77843-3255, USA

SO Polyhedron (2005), 24(11), 1314-1324

CODEN: PLYHDE; ISSN: 0277-5387

PB Elsevier B.V.

DT Journal

LA English

AB The octamethyl(octahydro)dibenzofluorenyl (Oct) ligand was incorporated into twelve ansa-Oct-amido complexes having the general structures $\text{Me}_2\text{Si}(\eta^1\text{-C}_{29}\text{H}_{36})(\eta^1\text{-N-tBu})\text{MX}_2\cdot\text{L}$ or $\text{Me}_2\text{Si}(\eta^5\text{-C}_{29}\text{H}_{36})(\eta^1\text{-N-tBu})\text{MX}_2$ ($\text{M} = \text{Zr}$ or Hf): 2 ($\text{X} = \text{Cl}$, $\text{L} = \text{Et}_2\text{O}$); 3 ($\text{X} = \text{Br}$, $\text{L} = \text{Et}_2\text{O}$); 4 ($\text{X} = \text{Me}$, $\text{L} = \text{Et}_2\text{O}$); 5 ($\text{X} = \text{Me}$, $\text{L} = \text{THF}$); 6 ($\text{X} = \text{CH}_2\text{Ph}$); and 7 ($\text{X} = \text{CH}_2\text{SiMe}_3$). The solid-state structures were determined for seven of these complexes by x-ray crystallog., revealing $\eta^5\text{-C}_{29}\text{H}_{36}$ coordination for the ether-free, pseudotetrahedral species 6-Zr, 6-Hf, and 7-Zr, but $\eta^1\text{-C}_{29}\text{H}_{36}$ coordination for the ether-bound, trigonal bipyramidal species 2-Zr, 3-Zr, 3-Hf, and 5-Zr. The unusual $\eta^1\text{-C}_{29}\text{H}_{36}$ coordination was assigned because only one metal-C bond in each structure was at 2.281-2.330 Å; a 2nd metal-C distance was found between 2.731 and 2.847 Å; the remaining metal-C distances were found between 3.130 and 4.029 Å. An increase in the hapticity of these and other Oct- and fluorenyl-containing compds. was correlated to a convergence in the C-C bond lengths within the relevant five-membered rings.

RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:534247 CAPLUS

DN 141:89530

TI Olefin polymerization catalyst composition comprising group 13 amide derivatives

IN Romer, Duane R.; Rosen, Robert K.; Stevens, James C.; Timmers, Francis J.; Tuinstra, Hendrik E.

PA Dow Global Technologies Inc., USA

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004055067	A1	20040701	WO 2003-US36483	20031117
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2506144	AA	20040701	CA 2003-2506144	20031117
EP 1572757	A1	20050914	EP 2003-768952	20031117
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRAI US 2002-433180P	P	20021213		
WO 2003-US36483	W	20031117		

OS MARPAT 141:89530

AB Catalyst compns. that are highly tolerant of catalyst poisons for use in addition polymns. comprising a catalytic derivative of a Group 4 metal complex, a cocatalyst, and a Group 13 metal amide compound. Thus, ethylene and 1-octene were polymerized in the presence of (N-tert-butylamido)(tetramethyl- η^5 -cyclopentadienyl)dimethylsilane titanium 1,3-pentadiene, tris(pentafluorophenyl)borane, and bis(ethylaluminum)-1-phenylene-2-(phenyl)amideo- μ -bisdiphenylamide.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:308455 CAPLUS

DN 140:321926

TI Liquid and gel-like low molecular weight ethylene polymers
 IN Karjala, Teresa; Yalvac, Selim; Karjala, Thomas; Vanderlende, Daniel D.;
 Kolthammer, Brian W. S.; Stevens, James C.; Diehl, Charles F.
 PA Dow Global Technologies Inc., USA
 SO PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004031250	A1	20040415	WO 2003-US30910	20031001
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	EP 1554320	A1	20050720	EP 2003-799356	20031001
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRAI	US 2002-415595P	P	20021002		
	US 2002-424880P	P	20021108		
	WO 2003-US30910	W	20031001		

AB The subject invention pertains to homogeneous liquid low mol. weight ethylene/alpha-olefin polymers having a number average mol. weight (Mn) as determined by gel permeation chromatog., of less than 25,000, a total crystallinity, as measured by DSC, of less than 10 %, and a pour point, as measured by ASTM D97, of less than 50°C. The subject invention also pertains to homogeneous gel-like low mol. weight ethylene/alpha-olefin polymers having a number average mol. weight (Mn) as determined by gel permeation chromatog., of less than 25,000, a total crystallinity, as measured by DSC, of less than 50%, and a pour point, as measured by ASTM D97, of less than 90°C. These polymers having high comonomer concns., useful as pour-point-reducing additives for lubricating oils, are manufactured by polymerization of ethylene and ≥1 ethylenically unsatd. comonomer at ≥80° in the absence of H and in the presence of a single-site catalyst.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:120861 CAPLUS
 DN 140:164359
 TI Group 4 metal complexes containing 4-aryl-substituted, tricyclic indenyl derivatives as olefin polymerization catalysts and catalyst manufacture
 IN Graf, David D.; Kuhlman, Roger L.
 PA Dow Global Technologies Inc., USA
 SO PCT Int. Appl., 28 pp.
 CODEN: PIXXD2

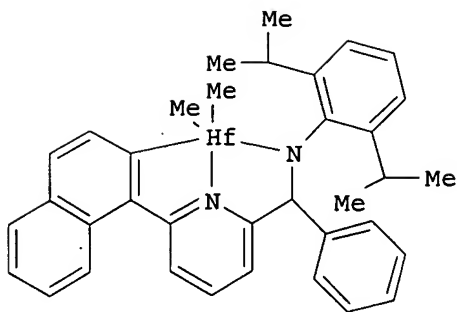
DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004013149	A1	20040212	WO 2003-US16265	20030522
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

CA 2492952 AA 20040212 CA 2003-2492952 20030522
 EP 1529051 A1 20050511 EP 2003-729087 20030522
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 BR 2003013087 A 20050628 BR 2003-13087 20030522
 PRAI US 2002-400489P P 20020802
 WO 2003-US16265 W 20030522
 OS MARPAT 140:164359
 AB Group 4 metal constrained geometry complexes comprise tricyclic 4-aryl
 substituted indenyl ligands, especially 1,5,6,7-tetrahydro-4-aryl-s-indacen-1-yl
 ligands. The catalyst complex [N-(1,1-dimethylethyl)-1,1-dimethyl-
 (1,2,3,3a,8a-η)-1,5,6,7-tetrahydro-2-methyl-4-phenyl-s-indacen-1-
 yl]silanaminato(2-)-N titanium di-Me was prepared and used in ethylene
 polymerization with 1-octene.

L4 ANSWER 6 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:376914 CAPLUS
 DN 138:385930
 TI Production of propylene copolymers using non-metallocene heteroaryl
 ligand-containing metal-centered catalysts
 IN Stevens, James C.; Vanderlende, Daniel D.
 PA The Dow Chemical Company, USA
 SO PCT Int. Appl., 188 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003040201	A1	20030515	WO 2002-US14158	20020506
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1444276	A1	20040811	EP 2002-725927	20020506
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2005508415	T2	20050331	JP 2003-542246	20020506
	US 2004082750	A1	20040429	US 2003-641978	20030815
	US 6919407	B2	20050719		
	US 2004249084	A1	20041209	US 2004-884420	20040702
	US 2005043470	A1	20050224	US 2004-914800	20040810
	US 2005054800	A1	20050310	US 2004-967849	20041018
	US 6946535	B2	20050920		
	US 2005245686	A1	20051103	US 2005-148895	20050609
PRAI	US 2001-338881P	P	20011106		
	US 2002-378203P	P	20020505		
	US 2002-378204P	P	20020505		
	US 2002-380148P	P	20020505		
	WO 2002-US14158	W	20020506		
	US 2002-289122	A3	20021105		
	US 2002-289138	A3	20021105		
	US 2002-289145	A3	20021105		
	US 2002-289168	A3	20021105		
OS	MARPAT 138:385930				
GI					



I

AB Copolymers comprising propylene, ethylene and/or one or more unsatd. monomers are characterized as having at least one of the following properties: (a) ¹³C NMR peaks of about equal intensity corresponding to a regio-error at about 14.6 and about 15.7 ppm, (b) a B-value > 1.4 when the comonomer content of the copolymer is at least 3%, (c) a skewness index Six > -1.20, (d) a DSC curve with Tme that remains essentially the same and Tmax that decreases as the amount of comonomer in the copolymer increases, and (e) an X-ray diffraction pattern that reports more gamma-form crystals than a comparable copolymer prepared with a Ziegler-Natta catalyst. These propylene polymers are produced using a non-metallocene, metal-centered, heteroaryl ligand-containing catalyst. The polymers can be blended with other polymers, such as propylene copolymers produced with metallocene catalysts, or the blends can be produced in situ by polymerizing monomers in a series reactor process using a non-metallocene catalyst of the invention in a first reactor and a metallocene catalyst in a second reactor. The copolymers and blends can be used in manufacture of films, sheets, foams, fibers and molded articles. Thus, a non-metallocene heteroaryl ligand-containing hafnium-centered catalyst (I) was produced by reacting tetrakis(dimethylamino)hafnium with 2-[(2,6-diisopropylphenylamino)phenyl]methyl-6-(1-naphthyl)pyridine in pentane, followed by reacting the intermediate with trimethylaluminum in pentane/hexane. Isotactic ethylene-propylene copolymer was produced by continuous solution polymerization in toluene using the non-metallocene catalyst, bis(hydrogenated tallow alkyl)methylammonium tetrakis(pentafluorophenyl)borate and Me aluminoxane (PMAO-IP) as an activator.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:964401 CAPLUS
DN 138:25087
TI Use of polar monomers as chain transfer agents in olefin polymerization and production of long chain branching polymers
IN Gaynor, Scott; Mullins, Michael; Athey, Phillip; Boone, Harold
PA Dow Global Technologies Inc., USA
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002100906	A1	20021219	WO 2002-US18459	20020611
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003050411	A1	20030313	US 2002-167972	20020611
PRAI US 2001-297642P	P	20010612		

AB A polymerization process comprises (1) contacting ≥ 1 polymerizable monomer, e.g., ethylene or propylene, in the presence of a polymerization catalyst, such as metallocene, non-metallocene or Ziegler-Natta catalyst, in a reactor, (2) effectuating polymerization of the monomer, (3) adding a polar monomer such as vinyl chloride to the reactor. The vinyl chloride monomer (VCM) behaves as a chain transfer agent undergoing β -Cl elimination after insertion in carbon-metal bond, and to produce long chain branching polymers. The polymers produced with VCM has better processability than those prepared in the absence of VCM, thus provide a cost effective process without substantially affecting the mol. weight of the polymers. In some polymers, the vinyl end groups can be transformed into other useful functional groups.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:736295 CAPLUS

DN 137:263447

TI Preparation of polyolefins using high molecular weight and low molecular weight catalysts

IN Stevens, James C.; Vanderlende, Daniel D.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 131 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074817	A2	20020926	WO 2002-US8121	20020315
WO 2002074817	A3	20030515		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2441028	AA	20020926	CA 2002-2441028	20020315
US 2003065097	A1	20030403	US 2002-100687	20020315
US 6875816	B2	20050405		
US 2003088037	A1	20030508	US 2002-100557	20020315
US 6924342	B2	20050802		
EP 1377613	A2	20040107	EP 2002-726644	20020315
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2002008485	A	20040309	BR 2002-8485	20020315
CN 1527847	A	20040908	CN 2002-806702	20020315
JP 2004527612	T2	20040909	JP 2002-573823	20020315
CN 1538977	A	20041020	CN 2002-806696	20020315
NO 2003004079	A	20031117	NO 2003-4079	20030915
US 2005020778	A1	20050127	US 2004-918906	20040816
US 2005065286	A1	20050324	US 2004-920485	20040817
US 2005187350	A1	20050825	US 2005-85390	20050321
US 2005187351	A1	20050825	US 2005-85793	20050321
PRAI US 2001-276719P	P	20010316		
US 2002-100557	A3	20020315		
US 2002-100687	A3	20020315		
WO 2002-US8121	W	20020315		

AB A polymerization process comprises contacting one or more olefinic comonomers in the presence of at least a high mol. weight catalyst and at least a low mol. weight catalyst in a single reactor; and effectuating the polymerization of the olefinic comonomers in the reactor to obtain an olefin polymer. Preferably, both catalysts have the ability to incorporate a substantially similar amount of comonomers in the olefin polymer. The polymers produced by the process may have a relatively higher level of long chain branching

while maintaining a relatively narrow mol. weight distribution, i.e., MWD less than about 6. These interpolymers may exhibit processability similar to or better than LDPE but have phys. properties similar to metallocene catalyzed polymers. Thus, ethylene-1-octene copolymer was prepared using dimethylsilyl(tetramethylcyclopentadienyl)(tert-butylamido)titanium (1,3-pentadiene), armenium borate [methylbis(hydrogenatedtallowalkyl)ammonium tetrakis(pentafluoro phenyl)borate], MMAO-3A (alkyl Me aluminoxanes) in ISOPAR-E (isoalkanes).

L4 ANSWER 9 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:736294 CAPLUS

DN 137:248125

TI High melt strength polyolefins and their manufacture

IN Degroot, Alexander W.; Stevens, James C.; Desjardins, Sylvie Y.; Weinhold, Jeffrey; Carnahan, Edmund; Gillespie, David; Vanderlende, Daniel D.

PA The Dow Chemical Company, USA; Dow Global Technologies Inc.

SO PCT Int. Appl., 103 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002074816	A2	20020926	WO 2002-US7919	20020315
	WO 2002074816	A3	20040219		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2441262	AA	20020926	CA 2002-2441262	20020315
	US 2003065097	A1	20030403	US 2002-100687	20020315
	US 6875816	B2	20050405		
	US 2003088037	A1	20030508	US 2002-100557	20020315
	US 6924342	B2	20050802		
	BR 2002008486	A	20040309	BR 2002-8486	20020315
	EP 1412398	A2	20040428	EP 2002-728477	20020315
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	CN 1527847	A	20040908	CN 2002-806702	20020315
	CN 1538977	A	20041020	CN 2002-806696	20020315
	JP 2004536895	T2	20041209	JP 2002-573822	20020315
	NO 2003004078	A	20031117	NO 2003-4078	20030915
	US 2005020778	A1	20050127	US 2004-918906	20040816
	US 2005065286	A1	20050324	US 2004-920485	20040817
	US 2005187350	A1	20050825	US 2005-85390	20050321
	US 2005187351	A1	20050825	US 2005-85793	20050321
PRAI	US 2001-276719P	P	20010316		
	US 2002-100557	A3	20020315		
	US 2002-100687	A3	20020315		
	WO 2002-US7919	W	20020315		

AB A polymer composition comprises (a) a high mol. weight, branched component and (b) a low mol. weight, branched component. Some polymer compns. are characterized by a substantial absence of amyl or Me branches and a melt strength (MS) that satisfies the following relation, $MS \geq x/I2 + y$, where $x \geq 12.5$ and $y \geq 3$. Some polymers are characterized by a MS that satisfies the above relation, where $x \geq 3$ and $y \geq 4.5$ and have a mol. weight distribution >3 . A polymerization process comprises contacting ≥ 1 olefinic comonomers in the presence of at least a high mol. weight catalyst and at least a low mol. weight catalyst in a single reactor. Thus, ethylene was polymerized with Armeenium borate and MMAO-3 cocatalyst, catalyst [(N-1,1-dimethylethyl)-1,1-(4-butylphenyl)-1-[[1,2,3,3a,7a-n]-3-(1,3-dihydro-2H-isoindol-2-yl)-1H-inden-1-yl]silanaminato-(2-)-N]dimethyltitanium and rac-[1,2-ethanediy]bis(1-

indenyl)]zirconium(1,4-diphenyl-11,3-butadiene) at ratio 0.34 at 140.3° to give polyethylene having d. 0.9638 g/mL and melt strength ~7 cN.

L4 ANSWER 10 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:534055 CAPLUS

DN 137:109617

TI Preparation of polyolefin with substituted indenyl transition metal complexes as catalysts

IN Kale, Lawrence T.; Vanderlende, Daniel D.; Nickias, Peter N.; Patton, Jasson T.; Stevens, James C.; Parikh, Deepak R.; Mangold, Debra J.

PA The Dow Chemical Company, USA

SO U.S., 57 pp., Cont.-in-part of U. S. 5,965,756.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6420507	B1	20020716	US 1998-70957	19980501
	US 5965756	A	19991012	US 1997-949505	19971014
	ZA 9803672	A	19991101	ZA 1998-3672	19980430
PRAI	US 1997-45348P	P	19970501		
	US 1997-45410P	P	19970501		
	US 1997-949505	A2	19971014		
	US 1996-34817P	P	19961219		

OS MARPAT 137:109617

GI For diagram(s), see printed CA Issue.

AB Olefin polymers are produced by polymerizing ≥ 1 α -olefin at 75-170° with catalysts of group 4 complexes comprising an indenyl groups substituted in the 2 or 3 position with ≥ 1 groups selected from hydrocarbyl, perfluoro-substituted hydrocarbyl, silyl, germyl and mixts. thereof; said indenyl group further being covalently bonded to the metal via a divalent ligand group, wherein the divalent ligand comprises N or P having an aliphatic or alicyclic hydrocarbyl group covalently bonded thereto via a primary or secondary carbon. The catalyst also comprises an activating cocatalyst comprising trispentafluorophenyl-borane or a compound composed of pos. charged Bronsted acid and noncoordinating, compatible anion. Preferred olefin polymers of the invention will be characterized as having low d., high mol. weight, narrow mol. weight distribution, high vinyl content, a bimodal short chain branching distribution, and a bimodal DSC melting curve or a deconvoluted ATREF or GPC curve which shows at least two distinct narrow peaks. Thus, (2,3-Dimethylindenyl)(cyclododecylamido)silane reacted with n-BuLi in ether to give dilithium[(2,3-dimethylindenyl)(cyclododecylamido)dimethyl-silane], which reacted with TiCl₃ in THF to give (2,3-Dimethylindenyl)dimethyl(cyclododecylamido)silan etitanium dichloride.

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:142802 CAPLUS

DN 136:201027

TI Dimensionally stable foam made from compatibilized blends of poly(vinyl aromatic) polymers and poly(alpha-olefin)s for cushion packaging applications

IN Chaudhary, Bharat I.; Hood, Lawrence S.; Barry, Russell P.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002014424	A2	20020221	WO 2001-US25438	20010814
	WO 2002014424	A3	20030710		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,

HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, YU,
ZA, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001081270 A5 20020225 AU 2001-81270 20010814
US 2002111389 A1 20020815 US 2001-929781 20010814
PRAI US 2000-225111P P 20000814
WO 2001-US25438 W 20010814

AB Foams made from a ternary blend of an alkenyl aromatic polymer such as polystyrene, an α -olefin polymer such as polyethylene, and a substantially random interpolymer compatibilizer, are used as cushion packaging. The cushion packaging foams are soft, dimensionally stable, and exhibit good cushioning properties. Metallocene catalyzed ethylene styrene copolymer was used as a compatibilizer in blends with polystyrene and LDPE (20:20:60) and blown with isobutane to give a foam having d. 70.2 kg/m³, cell volume 45.1%, and cell size 0.07 mm.

L4 ANSWER 12 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:808282 CAPLUS
DN 135:344927
TI Functionalized ethylene/vinyl or vinylidene aromatic interpolymers
IN Drumright, Ray E.; Terbrueggen, Robert H.; Burdett, Kenneth A.; Timmers, Francis J.; Hahn, Stephen F.
PA The Dow Chemical Company, USA
SO U.S., 23 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6313252	B1	20011106	US 1999-244921	19990204
	US 2002042488	A1	20020411	US 2001-974284	20010110
	US 2002037988	A1	20020328	US 2001-974102	20011010
PRAI	US 1999-244921	A3	19990204		

AB Novel substantially random functionalized interpolymers and processes for making them are disclosed. The novel interpolymers include those prepared from ethylene and vinyl aromatic monomers such as ethylene-styrene interpolymers which are then functionalized with a variety of electrophilic and nucleophilic reagents.

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:559587 CAPLUS
DN 135:137848
TI Organometallic compounds with annelated indenyl ligands as polymerization catalysts
IN Becke, Sigurd; Lang, Heinrich; Weiss, Thomas
PA Bayer A.-G., Germany
SO Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1120424	A2	20010801	EP 2001-100145	20010116
	EP 1120424	A3	20021016		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 10003581	A1	20010802	DE 2000-10003581	20000128
	US 2001014725	A1	20010816	US 2001-767491	20010123
	US 6613713	B2	20030902		
	CA 2332165	AA	20010728	CA 2001-2332165	20010125

JP 2001253895 A2 20010918 JP 2001-20072 20010129
PRAI DE 2000-10003581 A 20000128

OS MARPAT 135:137848

AB Transition metal complexes with annelated indenyl compound ligands of specified structure are catalysts for the polymerization of olefins and diolefins. Stirring 0.5 mol indan with 0.5 mol acryloyl chloride and AlCl₃ in CH₂Cl₂ at 0° and then at 25° gave 24% 5,6,7-tetrahydroindacen-1-one (I), reduction of which with NaBH₄ in Et₂O gave the corresponding alc., refluxing of which with p-MeC₆H₄SO₃H in C₆H₆ gave 90% (based on I) 5,6,7-tetrahydroindacene, bromination of which in Et₂O gave 77% 1,2-dibromo derivative, dehydrobromination of which in refluxing tetralin gave 14% 2-bromo-5,6,7-tetrahydroindacen. Grignard reaction of this compound with Me₂SiCl₂ gave 97% chlorodimethyl(5,6,7-tetrahydroindenyl)silane, reaction of which with tert-BuNH₂ in Et₂O at 0° gave 94% tert-butylamino-2-(5,6,7-tetrahydroindacenyl)dimethylsilane, reaction of which with BuLi and then TiCl₃.3THF in pentane at -78 to +25° gave 60% tert-butylamino-2-(5,6,7-tetrahydroindacenyl)dimethylsilyl)titanium dichloride. Use of this compound in the polymerization of C₃H₆ is exemplified.

L4 ANSWER 14 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:521923 CAPLUS

DN 135:108148

TI Polymer compositions having improved ignition resistance

IN Betso, Stephen R.; Guest, Martin J.; Remenar, Richard M.; Kjellqvist, Jerker B. I.; Cheung, Yunwa W.; Kelley, David C.; Van Volkenburgh, William R.; Wevers, Ronald; Keen, Fiona E.; Field, Arnold W.; Reynolds, Ian

PA Dow Chemical Co., USA

SO U.S., 23 pp., Cont.-in-part of U.S. 5,973,049.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6262161	B1	20010717	US 1999-374097	19990812
	US 5973049	A	19991026	US 1997-882819	19970626
	ES 2201504	T3	20040316	ES 1998-929012	19980622
	ZA 9805553	A	20000110	ZA 1998-5553	19980625
	TW 522160	B	20030301	TW 1998-87110280	19980625
	US 6103803	A	20000815	US 1999-327685	19990608
	CA 2381963	AA	20010222	CA 2000-2381963	20000804
	WO 2001012708	A1	20010222	WO 2000-US21449	20000804
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP	1226208	A1	20020731	EP 2000-953854	20000804
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003507508	T2	20030225	JP 2001-517598	20000804
PRAI	US 1997-882819	A2	19970626		
	US 1999-374097	A	19990812		
	WO 2000-US21449	W	20000804		

AB The present invention relates to compns. having enhanced ignition resistance, comprising: (A) from about 5 to about 90 percent by weight of at least one substantially random interpolymer (e.g., ethylene-styrene copolymer prepared with metallocene catalysts); (B) from about 10 to about 94.9 percent by weight of at least one filler selected from ammonium polyphosphate, magnesium hydroxide, calcium hydroxide, and aluminum trihydrate; and (C) at least one component selected from; (1) about 5 to about 50 percent by weight of at least one filler; or (2) about 0.5 to about 20 percent by weight of at least one metal borate, and, optionally, about 0.5 to about 10 percent by weight of at least one processing aid; or (3) about

0.1 to about 15 percent by weight of at least one initiator or at least one coupling agent; or (4) about 0.1 to about 20 percent by weight of at least one hindered amine stabilizer.

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:435139 CAPLUS
DN 135:46617
TI Substituted group 4 metal complexes, catalysts and olefin polymerization process
IN Klosin, Jerzy; Kruper, William J., Jr.; Nickias, Peter N.; Roof, Gordon R.; Soto, Jorge
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 129 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001042315	A1	20010614	WO 2000-US31645	20001117
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2393793	AA	20010614	CA 2000-2393793	20001117
	BR 2000016487	A	20020827	BR 2000-16487	20001117
	EP 1242471	A1	20020925	EP 2000-980485	20001117
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	EP 1253158	A1	20021030	EP 2002-17456	20001117
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003104995	A2	20030409	JP 2002-203909	20001117
	JP 2003516420	T2	20030513	JP 2001-543610	20001117
	CN 1495188	A	20040512	CN 2002-126337	20001117
	ZA 2002004069	A	20030522	ZA 2002-4069	20020522
	NO 2002002741	A	20020715	NO 2002-2741	20020607
	NO 2002003403	A	20020715	NO 2002-3403	20020715
	ZA 2003003941	A	20040211	ZA 2003-3941	20030521
PRAI	US 1999-170175P	P	19991210		
	US 1999-170177P	P	19991210		
	US 1999-170178P	P	19991210		
	EP 2000-980485	A3	20001117		
	EP 2002-17456	A3	20001117		
	JP 2001-543610	A3	20001117		
	WO 2000-US31645	W	20001117		

OS MARPAT 135:46617
AB Group 4 metal complexes of the constrained geometry type, catalysts derived therefrom and polymerization processes using the same, characterized by a nitrogen containing aliphatic or cycloaliph. moiety that is substituted with one or more aryl groups, an aryl-substituted silane bridging group, or one or more Group 14 organometalloid substituted hydrocarbyl substituents on the metal. Ethylene and 1-octene were copolymerized using (N-(1,1-dimethylethyl)-1,1-dimethyl-1-((1,2,3,3a,7a-η)-3-(1,3-dihydro-2H-isoindol-2-yl)-1H-inden-1-yl)silanamino-(2-)-N-)dimethyltitanium and methyl-di(octadecyl)ammonium tetrakis(pentafluorophenyl)borate cocatalyst.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:394140 CAPLUS
DN 136:102681

TI Preparation of phenyl substituted benz[f]indenyl compounds

AU Anon.

CS USA

SO Research Disclosure (2001), 445(May), P817 (No. 445110)

CODEN: RSDSBB; ISSN: 0374-4353

PB Kenneth Mason Publications Ltd.

DT Journal; Patent

LA English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	RD 445110		20010510	
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PRAI	RD 2001-445110	20010510		
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AB Ph substituted benz[f]indenyl compds. are prepared in high purity from 1,2-bis(dibromomethyl)benzene, N,N-dimethylformamide, sodium iodide, 2-cyclopentene-1-one and Ph magnesium bromide. These compds. can be used for formation of metal complexes for polymerization catalysts. The use of these catalysts was briefly shown for ethylene/styrene copolymn.

L4 ANSWER 17 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:152734 CAPLUS

DN 134:194445

TI Process for preparing polymer blends having broad molecular weight distribution in a single reactor

IN Laughner, Michael K.; Mangold, Debra J.; Parikh, Deepak R.

PA Dupont Dow Elastomers L.L.C., USA

SO PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001014434	A1	20010301	WO 2000-US22500	20000816
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W: AU, BR, CA, CN, CZ, HU, ID, JP, KR, MX, NO, PL, SG, US, ZA

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

US 6369176	B1	20020409	US 2000-638846	20000814
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CA 2382182	AA	20010301	CA 2000-2382182	20000816
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BR 2000013335	A	20020402	BR 2000-13335	20000816
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EP 1214365	A1	20020619	EP 2000-959254	20000816
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY

JP 2003507541	T2	20030225	JP 2001-518762	20000816
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AU 772057	B2	20040408	AU 2001-16387	20000816
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US 2002143122	A1	20021003	US 2002-38920	20020103
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US 6610800	B2	20030826		
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PRAI	US 1999-149853P	P	19990819	
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US 2000-638846	A3	20000814		
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WO 2000-US22500	W	20000816		
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OS MARPAT 134:194445

AB Ethylene-based polymers having mol. weight distribution (MWD) ≥ 2 are made in a single reactor using a mixed constrained geometry catalyst (CGC) system. The process comprises the steps of contacting under polymerization conditions and in a single reaction vessel, (i) ethylene, (ii) ≥ 1 C3-C20 α -olefin, (iii) optionally, ≥ 1 polyene, and (iv) a mixed CGC system. A diagram illustrating the process is enclosed.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:137502 CAPLUS

DN 134:179692

TI Electrical devices having ethylene interpolymer components

IN Betso, Stephen R.; Guest, Martin J.; Remenar, Richard M.; Field, Arnold

W.; Friday, Alan; Freestone, James; Reynolds, Ian; Keen, Fiona E.;

Kjellqvist, Jerker B. I.; Fassian, Caecille F.; Easter, Mark R.;

Betteridge, Steven; Martin, Jill M.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001013381	A1	20010222	WO 2000-US21506	20000804
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6524702	B1	20030225	US 1999-374099	19990812
	CA 2381760	AA	20010222	CA 2000-2381760	20000804
	EP 1228515	A1	20020807	EP 2000-952591	20000804
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003507849	T2	20030225	JP 2001-517393	20000804
PRAI	US 1999-374099	A1	19990812		
	WO 2000-US21506	W	20000804		

AB Elec. conductive devices (wire and cable assemblies) comprise ≥ 1 elec. conductive substrate surrounded by a (foamed) interpolymer composition or blend, as insulator, protective jacket, shield, etc. The interpolymer composition comprises ≥ 1 substantially random interpolymer of (i) polymer units derived from (a) ≥ 1 vinyl or vinylidene aromatic monomer, or (b) ≥ 1 hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, or (c) a combination of ≥ 1 vinyl or vinylidene aromatic monomer and ≥ 1 hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, and (ii) polymer units derived from ≥ 1 aliphatic olefin monomer having 2-20 C atoms. Ethylene-styrene interpolymers were prepared using metallocene catalysts.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:137501 CAPLUS
DN 134:179691
TI Electrical devices having ethylene interpolymer components
IN Betso, Stephen R.; Fassian, Caecille F.
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001013380	A1	20010222	WO 2000-US21450	20000804
	WO 2001013380	C2	20020912		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6524702	B1	20030225	US 1999-374099	19990812
	CA 2381499	AA	20010222	CA 2000-2381499	20000804
	EP 1210716	A1	20020605	EP 2000-950993	20000804
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003507848	T2	20030225	JP 2001-517392	20000804
PRAI	US 1999-374099	A1	19990812		

WO 2000-US21450 W 20000804

AB Elec. conductive devices (wire and cable assemblies) comprise ≥ 1 elec. conductive substrate surrounded by a (foamed) interpolymer composition or blend, as insulator, protective jacket, shield, etc. The interpolymer composition comprises ≥ 1 substantially random interpolymer of (i) polymer units derived from (a) ≥ 1 vinyl or vinylidene aromatic monomer, or (b) ≥ 1 hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, or (c) a combination of ≥ 1 vinyl or vinylidene aromatic monomer and ≥ 1 hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, and (ii) polymer units derived from ≥ 1 aliphatic olefin monomer having 2-20 C atoms. Ethylene-styrene interpolymers were prepared using metallocene catalysts.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:137289 CAPLUS

DN 134:179360

TI Improved thermoplastic compositions for processes such as rotational molding and durable goods applications

IN Chaudhary, Bharat I.; Markovich, Ronald P.; Nieto, Jesus; Laubach, Adam E.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012714	A1	20010222	WO 2000-US22231	20000810
W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
US 6362270	B1	20020326	US 1999-374100	19990812
AU 2000066401	A5	20010313	AU 2000-66401	20000810
EP 1226211	A1	20020731	EP 2000-954053	20000810
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL	
JP 2003507511	T2	20030225	JP 2001-517604	20000810
US 2002077401	A1	20020620	US 2001-3639	20011102
PRAI US 1999-374100	A1	19990812		
WO 2000-US22231	W	20000810		

AB The compns. have improved processability and/or improved phys. and mech. properties. The compns. often exhibit ≥ 1 of reduced low shear viscosity, reduced melt elasticity at low shear rate, reduced cycle times, improved sintering, faster bubble removal, a wide range of processing temps., improved low temperature and/or room temperature impact, good or improved environmental stress crack resistance, acceptable heat distortion temperature, and acceptable flexural and secant modulus. Molded samples of 70% polypropylene and 30% ethylene-styrene copolymer had notched Izod impact strength 0.93 ft-lb/in and environmental stress crack resistance 2183 h; vs. 0.26 and 191, resp., for 100% polypropylene.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:137283 CAPLUS

DN 134:179358

TI Compositions having improved ignition resistance and molded products

IN Betso, Stephen R.; Guest, Martin J.; Kjellqvist, Jerker B. I.; Cheung, Yunwa W.; Van Volkenburgh, William R.; Wevers, Ronald; Keen, Fiona E.; Field, Arnold W.; Reynolds, Ian; Remenar, Richard M.; Kelley, David C.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012708	A1	20010222	WO 2000-US21449	20000804
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6262161	B1	20010717	US 1999-374097	19990812
	CA 2381963	AA	20010222	CA 2000-2381963	20000804
	EP 1226208	A1	20020731	EP 2000-953854	20000804
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003507508	T2	20030225	JP 2001-517598	20000804
PRAI	US 1999-374097	A	19990812		
	US 1997-882819	A2	19970626		
	WO 2000-US21449	W	20000804		

AB The interpolymer compns. comprise (A) 5-90% ≥ 1 substantially random interpolymer prepared by polymerizing ethylene and/or ≥ 1 α -olefin monomers with ≥ 1 vinyl or vinylidene aromatic monomers, e.g. ethylene-styrene copolymers and optionally with other polymerizable ethylenically unsatd. monomer(s), (B) 10-94.9% ≥ 1 filler selected from ammonium polyphosphate, Mg hydroxide, Ca hydroxide, and Al trihydrate, and (C) ≥ 1 components selected from (1) 5-50% ≥ 1 filler selected from talc, Ca carbonate, glass fibers, marble dust, cement dust, clay, feldspar, SiO₂ or glass, fumed SiO₂, silicates, alumina, Mg oxide, Sb oxide, Zn oxide, Ba sulfate, Al silicate, Ca silicate, Ti oxides, glass microspheres, mica, clays, wollastonite, and chalk, (2) 0.5-20% ≥ 1 metal borate of Group IIA, and, optionally, 0.5-10% ≥ 1 processing aid selected from polydimethylsiloxane, organopolysiloxanes, tartaric acid, stearic acid, Zn stearic, waxes, and high melt flow polyolefins, (3) 0.1-15% ≥ 1 initiator or ≥ 1 coupling agent selected from organic peroxides, silanes, titanates, zirconates, multifunctional vinyl compds. and organic azides, and (4) 0.1-20% ≥ 1 hindered amine stabilizer. Ethylene-styrene copolymer containing 30% aluminum trihydrate was self extinguishing and could incorporate some carbonate without property loss.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 22 OF 55 CAPLUS COPYRIGHT 2005 ACS on STM

AN 2001:115195 CAPLUS

DN 134:179008

TI Azidosilane-modified, moisture-curable polyolefin polymers, process for making, and articles obtained therefrom

IN Drumright, Ray E.; Ho, Thoi H.; Terbrueggen, Robert H.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001010914	A1	20010215	WO 2000-US20912	20000801
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZW, AM, AZ,				

BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6331597 B1 20011218 US 1999-370309 19990809
EP 1218422 A1 20020703 EP 2000-952354 20000801
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL
JP 2003506533 T2 20030218 JP 2001-515721 20000801
PRAI US 1999-370309 A2 19990809
WO 2000-US20912 W 20000801

AB The invention includes a water-curable azidosilane grafted polymer selected from the group consisting of (i) homogeneous ethylene polymers which have d. ≤ 0.900 , and (ii) interpolymers of at least one ethylene or α -olefin and at least one vinylidene aromatic compound. The water-curable silane-grafted polymer may comprise the reaction product of: at least one first polymer, the first polymer selected from the group consisting of an interpolymer, a substantially linear ethylene polymer, and a mixture thereof; the interpolymer comprising polymer units of at least one ethylene or α -olefin and at least one vinylidene aromatic compound; and at least one monofunctional azidosilane. The invention further includes a process for producing a water-curable silane-grafted polymer. A further embodiment of the process of the invention comprises shaping the water-curable silane-grafted polymer and contacting the shaped water curable silane-grafted polymer to form a moisture-cured polymer. The invention also includes the water curable silane-grafted polymers produced by either of the two processes along with any articles obtainable from that water curable silane-grafted polymer.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:110111 CAPLUS
DN 134:164187
TI Acoustical insulation foams
IN Chaudhary, Bharat I.; Barry, Russell P.; Park, Chung P.; Reimers, Martin
PA The Dow Chemical Company, USA
SO U.S., 20 pp., Cont.-in-part of U.S. Ser. No. 428,575.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6187232	B1	20010213	US 2000-488220	20000119
	US 6231795	B1	20010515	US 1998-205938	19981204
	US 6133333	A	20001017	US 1999-428575	19991026
	US 6369120	B1	20020409	US 2000-689926	20001012
	US 2002121717	A1	20020905	US 2002-37396	20020104
	US 2003162852	A1	20030828	US 2003-37363	20030106
PRAI	US 1998-205938	A3	19981204		
	US 1999-428575	A2	19991026		
	US 2000-488220	A3	20000119		

AB An acoustical insulation foam having, either with or without elastification, an Asker C hardness of less than about 65, a d. of about 5 to about 150 kg/m³, a cell size of about 0.05 to about 15 mm, an open cell content of 0 to about 100 volume percent, a thickness of about 1 to about 200 mm, and a width of about 100 to about 3000 mm; comprises; (A) one or more alkenyl aromatic polymers, (B) one or more substantially random interpolymers and (C) optionally, one or more nucleating agents and (D) optionally, one or more other additives; and (E) one or more blowing agents.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:824317 CAPLUS
DN 134:5814
TI Highly crystalline ethylene- α -olefin-polyene interpolymers and

compositions, preparation thereof, and articles therefrom
IN Hughes, Morgan Mark; Walton, Kim Louis; Daniel, Christian
PA Dupont Dow Elastomers L.L.C., USA
SO PCT Int. Appl., 99 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000069930	A1	20001123	WO 2000-US13159	20000512
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2372056	AA	20001123	CA 2000-2372056	20000512
	EP 1183286	A1	20020306	EP 2000-930700	20000512
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 2000011524	A	20020326	BR 2000-11524	20000512
	JP 2002544344	T2	20021224	JP 2000-618345	20000512
PRAI	US 1999-134360P	P	19990514		
	WO 2000-US13159	W	20000512		

AB High crystallinity (>16%) random 84-99:>0-<16:>0-<15 ethylene/C3-20 α -olefin/polyene interpolymers (T_g >-45°), whether grafted with an unsatd. monomer or not, and if grafted, whether crosslinked or not, can be used alone or blended with other natural or synthetic polymers to form compns. The polymer and the polymer blend compns. have desirable phys. properties and are useful in fabricating a variety of finished products, such as belts, cable insulation, fibers, laminates, foams, shrink tubing, etc. (no data). Thus, a 91.8:4.5:3.6 ethylene-propene-5-ethylidene-2-norbornene terpolymer prepared with a catalyst system comprising (tert-butylamido)dimethyl(η 5-2-methyl-s-indacen-1-yl)silanetitanium(II) 1,3-pentadiene, tris(pentafluorophenyl)borane, and a modified methylalumoxane scavenger, and having Mw 95,300, Mn 49,400, Mw/Mn 1.93, d. 0.922 g/cc, peak m.p. 108°, crystallinity 37%, T_g -15, tensile strength at break 21.6 MPa, elongation at break 666, and Mooney viscosity (ML1+4 at 25°) 16.9, was vulcanized (10 parts) with Plioflex 1502 85, butadiene rubber 15, carbon black 60, and typical compounding additives, giving T90 5.8 min and abrasion resistance (volume loss) 91.6.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:628211 CAPLUS
DN 133:224082
TI Process for preparing polyolefin thermoplastic vulcanizates
IN Terbrueggen, Robert H.; Drumright, Ray E.; Ho, Thoi H.
PA Dow Chemical Company, USA
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000052091	A1	20000908	WO 2000-US5045	20000224
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				

DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6277916	B1	20010821	US 1999-257771	19990225
CA 2364438	AA	20000908	CA 2000-2364438	20000224
EP 1157066	A1	20011128	EP 2000-914737	20000224

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

BR 2000010275	A	20020115	BR 2000-10275	20000224
JP 2002538256	T2	20021112	JP 2000-602712	20000224

PRAI US 1999-257771 A 19990225
WO 2000-US5045 W 20000224

AB This invention includes a process for forming a thermoplastic vulcanizate comprising: (a) mixing a C-H insertion curing agent with at least one elastomeric phase polymer to form a first admixt.; (b) mixing at least one non-elastomeric polyolefin with the first admixt. to form a second admixt.; and (c) heating the second admixt. to a temperature at least the decomposition temperature of the curing agent to crosslink the elastomeric phase while mixing the admixt. to an extent sufficient to result in the formation of a thermoplastic material, hereinafter referred to as a thermoplastic vulcanizate, and optionally including an addnl. step (d) of shaping the resulting thermoplastic vulcanizate, especially by heating and foaming or molding the TPV. The C-H insertion curing agent is preferably selected from alkyl and aryl azides (R-N3), acyl azides (R-C(O)N3), azidoformates ((R-O-C(O)-N3), sulfonyl azides (R-SO2-N3), phosphoryl azides (RO)2-(PO)-N3), phosphinic azides (R2-P(O)-N3) and silyl azides (R3-Si-N3), with poly(sulfonyl azide) most preferred. Addnl., the invention includes a thermoplastic vulcanizate comprising a blend of: (1) an elastomeric phase crosslinked using a C-H insertion curing agent dispersed in; (2) at least one non-elastomeric thermoplastic polyolefin. The invention also includes a foamable composition comprising (1) an elastomeric phase crosslinked using a C-H insertion curing agent dispersed in; (2) at least one non-elastomeric thermoplastic polyolefin; and (3) from 0.1 to 25% based on the combined weight of components (1) and (2) of at least one foaming agent as well as a fabricated part, cable jacket, cable insulation, or foam comprising the thermoplastic vulcanizate or the invention or resulting from the process of the invention.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 26 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:401899 CAPLUS
DN 133:44646
TI Soft, flexible foams from blends of alkenyl aromatic polymers and α -olefin/vinyl or vinylidene aromatic and/or sterically hindered aliphatic or cycloaliphatic vinyl or vinylidene interpolymers
IN Chaudhary, Bharat I.; Hood, Lawrence S.; Barry, Russell P.
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000034363	A2	20000615	WO 1999-US26970	19991116
	WO 2000034363	A3	20000921		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 6231795	B1	20010515	US 1998-205938	19981204
	CA 2353089	AA	20000615	CA 1999-2353089	19991116
	EP 1144489	A2	20011017	EP 1999-961671	19991116
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, SI, LT, LV, FI, RO

BR 9916946	A	20011218	BR 1999-16946	19991116
JP 2002531656	T2	20020924	JP 2000-586804	19991116
NO 2001002694	A	20010709	NO 2001-2694	20010531
PRAI US 1998-205938	A2	19981204		
WO 1999-US26970	W	19991116		

AB A soft foam having an Asker C hardness of less than about 65, comprises:
 (A) from 30 to 70% of one or more alkenyl aromatic polymers and wherein at least one of said alkenyl aromatic polymers has a mol. weight (Mw) of from 100,000 to 500,000; and (B) from 30 to 70% of one or more substantially random interpolymers having an I2 of 0.1 to 50g/10 min, an Mw/Mn of 1.5 to 20; comprising (1) from 8 to 45 mol percent of polymer units derived from: (a) at least one vinyl or vinylidene aromatic monomer, or (b) at least one hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, or (c) a combination of at least one aromatic vinyl or vinylidene monomer and at least one hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, and (2) from 55 to 92 mol percent of polymer units derived from at least one of ethylene and/or a C3-20 α -olefin; and (3) from 0 to 20 mol percent of polymer units derived from one or more of ethylenically unsatd. polymerizable monomers other than those derived from (1) and (2); and (C) optionally, one or more nucleating agents; and (D) optionally, one or more other additives; and (E) one or more blowing agents present in a total amount of from 0.4 to 5.0 g-moles per kg. A foam was prepared from an ethylene-styrene copolymer and polystyrene.

L4 ANSWER 27 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:314745 CAPLUS

DN 132:322897

TI Shear thinning ethylene/ α -olefin interpolymers and their preparation; for molded articles

IN Cady, Larry Duane; Hughes, Morgan Mark; Laughner, Michael Kenneth; Meiske, Larry Alan; Parikh, Deepak Rasiklal

PA Dupont Dow Elastomers LLC, USA

SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000026268	A1	20000511	WO 1999-US25637	19991102
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2347501	AA	20000511	CA 1999-2347501	19991102
BR 9915199	A	20011204	BR 1999-15199	19991102
EP 1159320	A1	20011205	EP 1999-971431	19991102
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002528610	T2	20020903	JP 2000-579651	19991102
CN 1134466	B	20040114	CN 1999-815105	19991102
US 6680361	B1	20040120	US 2001-830936	20010502
US 2004122190	A1	20040624	US 2003-719381	20031120
PRAI US 1998-106569P	P	19981102		
WO 1999-US25637	W	19991102		
US 2001-830936	A1	20010502		

AB Shear-thinning ethylene/ α -olefin and ethylene/ α -olefin/diene monomer interpolymers (or blends) that do not include a traditional branch-inducing monomer such as norbornadiene are prepared at an elevated temperature in an atmospheric that has little or no H using a constrained geometry complex catalyst and an activating cocatalyst. Thus, ethylene-5-ethylidene-2-norbornene-propylene elastomer was prepared

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 28 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:314702 CAPLUS
 DN 132:322268
 TI Preparation of titanium(II) or zirconium(II) complexes
 IN Rosen, Robert K.
 PA The Dow Chemical Company, USA
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000026221	A1	20000511	WO 1999-US22359	19990928
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2343948	AA	20000511	CA 1999-2343948	19990928
	AU 9964020	A1	20000522	AU 1999-64020	19990928
	US 6090962	A	20000718	US 1999-407654	19990928
	EP 1124834	A1	20010822	EP 1999-951614	19990928
	EP 1124834	B1	20021106		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002528551	T2	20020903	JP 2000-579609	19990928
	AT 227302	E	20021115	AT 1999-951614	19990928
	NO 2001002012	A	20010424	NO 2001-2012	20010424
PRAI	US 1998-106162P	P	19981029		
	WO 1999-US22359	W	19990928		

AB Titanium and zirconium complexes comprising one or more, cyclic, delocalized π -bonded ligand groups wherein the metal of said complexes is in the +2 formal oxidation state are prepared in high yield and purity by reaction of the corresponding titanium or zirconium halides in the +3 or +4 oxidation state with a di(C1-20alkyl) magnesium reagent. The complexes are used as catalyst components for olefin polymerization catalysts.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 29 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:290932 CAPLUS
 DN 132:309415
 TI Multilayer structures of polymer and lignocellulosic materials
 IN Dubensky, Ellen M.; Liang, Wenbin; Betso, Stephen R.; Boldo, Renzo; Kocher, Roger; Read, Michael D.; Harelle, Ludovic; Kjellqvist, Jerker B. L.; Parkinson, Shaun
 PA The Dow Chemical Company, USA
 SO PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000024577	A1	20000504	WO 1999-US24719	19991022
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

CA 2344889 AA 20000504 CA 1999-2344889 19991022
 EP 1140489 A1 20011010 EP 1999-956633 19991022
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 JP 2002528299 T2 20020903 JP 2000-578164 19991022
 PRAI US 1998-105339P P 19981023
 US 1999-131839P P 19990430
 WO 1999-US24719 W 19991022
 AB A multilayer structure useful in making floor, wall, ceiling coverings,
 furniture, decorative overlays etc. comprises a lignocellulose-based layer
 and a copolymer layer free from substantial amount of tackifier comprising
 α -olefin monomers, vinyl or vinylidene aromatic monomers, sterically
 hindered aliphatic or cycloaliph. vinyl or vinylidene monomers, and
 optionally other polymerizable ethylenically unsatd. monomer(s). Thus, a
 sheet was cast from ethylene-styrene copolymer 85, polyethylene containing 2%
 erucamide 10, and polyethylene containing 20% silica 5% and heat-laminated to
 a wood veneer.
 RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 30 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:260658 CAPLUS
 DN 132:294807
 TI Alpha-olefin/vinyl or vinylidene aromatic and/or sterically hindered
 aliphatic or cycloaliphatic vinyl or vinylidene interpolymers for carpet
 applications
 IN Bieser, John O.
 PA The Dow Chemical Company, USA
 SO PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000022226	A1	20000420	WO 1999-US20618	19990909
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9959138	A1	20000501	AU 1999-59138	19990909
EP 1141475	A1	20011010	EP 1999-946813	19990909
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002527639	T2	20020827	JP 2000-576109	19990909
PRAI US 1998-104378P	P	19981015		
WO 1999-US20618	W	19990909		

AB The title polymers are prepared by melt blending ≥ 1 substantially
 random interpolymer derived from ethylene and/or ≥ 1 α -olefin
 monomers with specific amts. of ≥ 1 vinyl or vinylidene aromatic
 monomers and/or sterically hindered aliphatic or cycloaliph. vinyl or
 vinylidene monomers. The melt (optionally blended with filler and other
 polymers) is applied to the tufted carpet by extrusion coating. Thus, an
 example melt of ethylene-styrene copolymer (77.3% styrene, melt index 6.25
 g/10 min) was extruded (5.4 oz/yd²) onto tufted carpet squares.
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 31 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:144886 CAPLUS
 DN 132:194832
 TI Metalloid salt catalyst/activators for olefin polymerization
 IN Klosin, Jerzy
 PA The Dow Chemical Company, USA

SO PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011006	A1	20000302	WO 1999-US7770	19990409
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9935514	A1	20000314	AU 1999-35514	19990409
	US 6248914	B1	20010619	US 1999-289335	19990409
PRAI	US 1998-96946P	P	19980818		
	US 1998-104369P	P	19981015		
	WO 1999-US7770	W	19990409		

OS MARPAT 132:194832

AB Disclosed is a compound useful as a catalyst or as a cocatalyst in combination with a Group 3-10 metal for addition polymerization corresponding to the formula: $[M'Ql_2L'l'] + (Arf_3MQ_2)$ - wherein: M' is aluminum, gallium, or indium, M is boron, aluminum, gallium or indium; Q1 is C1-20 hydrocarbyl, optionally substituted with one or more groups which independently each occurrence are hydrocarbyloxy, hydrocarbylsiloxy, hydrocarbylsilylamino, di(hydrocarbylsilyl)amino, hydrocarbylamino, di(hydrocarbyl)amino, di(hydrocarbyl)phosphino, or hydrocarbylsulfido groups having from 1 to 20 atoms other than hydrogen, or, optionally, two or more Q1 groups may be covalently linked with each other to form one or more fused rings or ring systems; Q2 is an alkyl group, optionally substituted with one or more cycloalkyl or aryl groups, said Q2 having from 1 to 30 carbons; L' is a monodentate or polydentate Lewis base; l' is a number greater than zero indicating the number of Lewis base moieties, L', and Arf independently each occurrence is an anionic ligand group of up to 30 atoms not counting hydrogen. Polymerization of ethylene with 1-octene using (tert-butylamido)(tetramethylcyclopentadienyl)dimethylsilanetitanium 1,3-pentadiene and $[Al(CH_3)_2 \cdot 2(C_2H_5)_2O] + [B(C_6F_5)_3(CH_3)]$ - (I) as cocatalyst gave a copolymer at better yield and higher micro melt index value than a similar polymerization using trispentafluorophenylborane/Me aluminoxane in place of I.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 32 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:133688 CAPLUS

DN 132:166737

TI Catalyst activator composition for olefin polymerization

IN Chen, Eugene Y.; Kruper, William J., Jr.; Roof, Gordon R.

PA Dow Chemical Company, USA

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000009515	A1	20000224	WO 1999-US13346	19990611
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

CA 2337380	AA	20000224	CA 1999-2337380	19990611	
AU 9945647	A1	20000306	AU 1999-45647	19990611	
US 6214760	B1	20010410	US 1999-330673	19990611	
EP 1104426	A1	20010606	EP 1999-928618	19990611	
EP 1104426	B1	20020814			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
AT 222257	E	20020815	AT 1999-928618	19990611	
JP 2003528159	T2	20030924	JP 2000-564966	19990611	
TW 460491	B	20011021	TW 1999-88113056	19990730	
PRAI US 1998-96088P	P	19980811			
US 1998-104229P	P	19981014			
WO 1999-US13346	W	19990611			
OS MARPAT 132:166737					
AB	The title composition comprises a mixture of Al containing Lewis acids, (Arf3Al)(AlQ13)y(AlQ20)z, where Arf is a fluorinated aromatic hydrocarbyl moiety of 6-30 C atoms; Q1 = C1-20-alkyl; Q2 = C1-20 hydrocarbyl, optionally substituted with ≥1 hydrocarbyloxy, hydrocarbylsiloxy, hydrocarbylsilylamino, di(hydrocarbylsilyl)amino, hydrocarbylamino, di(hydrocarbyl)amino, di(hydrocarbyl)phosphino, or hydrocarbylsulfido groups having 1-20 atoms other than H, or, optionally, ≥2 Q2 groups may be covalently linked with each other to form ≥1 fused rings or ring systems; y = 0-1.0; z = 0.1-20; and the moieties (Arf3Al)(AlQ13)y may exist as discrete entities or dynamic exchange products. An example activator was the adduct (1/6.4) of tris(perfluorophenyl)borane with MMAO-3A.				
RE.CNT 9	THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				
L4	ANSWER 33 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN				
AN	2000:133687 CAPLUS				
DN	132:166736				
TI	Mixture of fluoroarylaluminum and aryloxyaluminum catalyst activator composition for olefin polymerization				
IN	Chen, Eugene Y.; Kruper, William J., Jr.; Roof, Gordon R.; Schwartz, David J.; Storer, Joey W.				
PA	The Dow Chemical Co., USA				
SO	PCT Int. Appl., 32 pp. CODEN: PIXXD2				
DT	Patent				
LA	English				
FAN.CNT 4					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2000009514	A1	20000224	WO 1999-US13345	19990611
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2337346	AA	20000224	CA 1999-2337346	19990611
	AU 9945646	A1	20000306	AU 1999-45646	19990611
	US 6211111	B1	20010403	US 1999-330675	19990611
	EP 1105398	A1	20010613	EP 1999-928617	19990611
	EP 1105398	B1	20020717		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002522547	T2	20020723	JP 2000-564965	19990611
	AT 220682	E	20020815	AT 1999-928617	19990611
	US 2001018396	A1	20010830	US 2001-772592	20010130
	US 6387838	B2	20020514		
PRAI	US 1998-96800P	P	19980817		
	US 1998-100490P	P	19980916		
	US 1999-330675	A3	19990611		
	WO 1999-US13345	W	19990611		

OS MARPAT 132:166736
AB The activators are described as aryloxyaluminum compds. AlArfQ1Q2, or a dimer, adduct, or mixture that are mixed with Al compds. AlArf3 at ratio 1:0.1-10, where Arf is a fluorinated aromatic hydrocarbonyl moiety of 6-30 C atoms; Q1 = Arf or a C1-20 hydrocarbyl group, optionally substituted with ≥1 cyclohydrocarbyl, hydrocarbyloxy, hydrocarbylsiloxy, hydrocarbylsilylamino, hydrocarbylsilyl, silylhydrocarbyl, di(hydrocarbylsilyl)amino, hydrocarbylamino, di(hydrocarbyl)amino, di(hydrocarbyl)phosphino, or hydrocarbylsulfido groups having 1-20 atoms other than H, or further optionally, such substituents may be covalently linked with each other to form ≥1 fused rings or ring systems; and Q2 = aryloxy, arylsulfide or di(hydrocarbyl)amido group, optionally substituted with ≥1 hydrocarbyl, cyclohydrocarbyl, hydrocarbyloxy, hydrocarbylsiloxy, hydrocarbylsilylamino, hydrocarbylsilyl, silylhydrocarbyl, di(hydrocarbylsilyl)amino, hydrocarbylamino, di(hydrocarbyl)amino, di(hydrocarbyl)phosphino, or hydrocarbylsulfido groups having 1-20 atoms other than H, or, further optionally such substituents may be covalently linked with each other to form ≥1 fused rings or ring systems, the Q2 having 3-20 atoms other than H. An example activator was a mixture of tris(perfluorophenyl)aluminum and diisobutyl-(2,6-tert-butyl-4-methylphenoxy)aluminum.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 34 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:133686 CAPLUS
DN 132:166735
TI Three coordinate aryloxyaluminum catalyst activator composition and its manufacture for olefin polymerization
IN Chen, Eugene Y.; Kruper, William J., Jr.; Roof, Gordon R.; Schwartz, David J.; Storer, Joey W.
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000009513	A1	20000224	WO 1999-US13343	19990611
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2336793	AA	20000224	CA 1999-2336793	19990611
	AU 9944403	A1	20000306	AU 1999-44403	19990611
	US 6187940	B1	20010213	US 1999-330671	19990611
	EP 1105397	A1	20010613	EP 1999-927518	19990611
	EP 1105397	B1	20030305		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002522546	T2	20020723	JP 2000-564964	19990611
	AT 233772	E	20030315	AT 1999-927518	19990611
	TW 469272	B	20011221	TW 1999-88113068	19990730
	US 6528449	B1	20030304	US 2000-702442	20001031
PRAI	US 1998-96801P	P	19980817		
	US 1998-100487P	P	19980916		
	US 1999-330671	A3	19990611		
	WO 1999-US13343	W	19990611		

OS MARPAT 132:166735
AB The activators are described as aryloxyaluminum compds. AlArfQ1Q2, or a dimer, adduct, or mixture and further mixts. with Al compds. AlArf3, where Arf is a fluorinated aromatic hydrocarbonyl moiety of 6-30 C atoms; Q1 = Arf or a C1-20 hydrocarbyl group, optionally substituted with ≥1

cyclohydrocarbyl, hydrocarbyloxy, hydrocarbylsiloxy, hydrocarbylsilylamino, hydrocarbylsilyl, silylhydrocarbyl, di(hydrocarbylsilyl)amino, hydrocarbylamino, di(hydrocarbyl)amino, di(hydrocarbyl)phosphino, or hydrocarbylsulfido groups having 1-20 atoms other than H, or further optionally, such substituents may be covalently linked with each other to form ≥ 1 fused rings or ring systems; and Q2 = aryloxy, arylsulfide or di(hydrocarbyl)amido group, optionally substituted with ≥ 1 hydrocarbyl, cyclohydrocarbyl, hydrocarbyloxy, hydrocarbylsiloxy, hydrocarbylsilylamino, hydrocarbylsilyl, silylhydrocarbyl, di(hydrocarbylsilyl)amino, hydrocarbylamino, di(hydrocarbyl)amino, di(hydrocarbyl)phosphino, or hydrocarbylsulfido groups having 1-20 atoms other than H, or, further optionally such substituents may be covalently linked with each other to form ≥ 1 fused rings or ring systems, the Q2 having 3-20 atoms other than H. An example activator was diisobutyl-(2,6-di-tert-butyl-4-methylphenoxy)aluminum.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 35 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:795888 CAPLUS

DN 132:36705

TI Elastic films made from α -olefin/vinyl aromatic and/or aliphatic or cycloaliphatic vinyl or vinylidene interpolymers

IN Cheung, Yunwa W.; Guest, Martin J.; Van Volkenburgh, William R.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9964501	A1	19991216	WO 1999-US11430	19990524
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9941999	A1	19991230	AU 1999-41999	19990524
	EP 1086168	A1	20010328	EP 1999-925781	19990524
	EP 1086168	B1	20050119		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002517584	T2	20020618	JP 2000-553502	19990524
	AT 287425	E	20050215	AT 1999-925781	19990524
	US 2002136916	A1	20020926	US 2002-57176	20020125
PRAI	US 1998-88974P	P	19980611		
	US 1999-317390	A1	19990524		
	WO 1999-US11430	W	19990524		

AB The present invention pertains to elastic films having at least one layer comprising; (A) at least one substantially random interpolpolymer, which comprises; (i) polymer units derived from; (i) at least one vinyl aromatic monomer, or (ii) at least one aliphatic or cycloaliph. vinyl or vinylidene monomer, or (iii) a combination of at least one aromatic vinyl monomer and at least one aliphatic or cycloaliph. vinyl or vinylidene monomer, and (2) polymer units derived from ethylene or at least one C3-20 α -olefin, or combination thereof; and optionally (3) polymer units derived from one or more ethylenically unsatd. polymerizable monomers other than those of (1) and (2); or (B) a blend of Component A with at least one polymer other than that of Component A; and wherein said elastic film has a recovery in the cross direction of greater than or equal to 80 percent and has a recovery in the machine direction of greater than or equal to 60 percent. The present invention also pertains to a multilayer film comprising at least two layers wherein at least one of said layers has a recovery in the

cross direction of greater than or equal to 80 percent and has a recovery in the machine direction of greater than or equal to 60 percent and comprises a polymer composition which comprises; (A) at least one substantially random interpolmer, which comprise; (1) polymer units derived from; (i) at least one vinyl aromatic monomer, or (ii) at least one aliphatic or cycloaliph. vinyl or vinylidene monomer, or (iii) a combination of at least one aromatic vinyl monomer and at least one aliphatic or cycloaliph. vinyl or vinylidene monomer, and (2) polymer units derived from ethylene or at least one C3-20 α -olefin, or combinations thereof; and optionally, (3) polymer units derived from one or more ethylenically unsatd. polymerizable monomers other than those of (1) and (2); or (B) at least one polymer other than that of Component A. An ethylene-styrene copolymer was prepared using metallocene catalysts.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 36 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:795887 CAPLUS

DN 132:36704

TI Films having dead-fold properties made from α -olefin/vinyl aromatic and/or aliphatic or cycloaliphatic vinyl or vinylidene interpolymers

IN Cheung, Yunwa W.; Guest, Martin J.; Van Volkenburgh, William R.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9964500	A1	19991216	WO 1999-US11429	19990524
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9941998	A1	19991230	AU 1999-41998	19990524
	EP 1086167	A1	20010328	EP 1999-925780	19990524
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002517583	T2	20020618	JP 2000-553501	19990524
PRAI	US 1998-88904P	P	19980611		
	WO 1999-US11429	W	19990524		

AB The present invention pertains to a film or sheet or extruded profile having at least one layer comprising; (A) at least one substantially random interpolmer, which comprises; (1) polymer units derived from; (i) at least one vinyl aromatic monomer, or (ii) at least one aliphatic or cycloaliph. vinyl or vinylidene monomer, or (iii) a combination of at least one aromatic vinyl monomer and at least one aliphatic or cycloaliph. vinyl or vinylidene monomer, and (2) polymer units derived from at least one C2-20 α -olefin; and optionally (3) polymer units derived from one or more ethylenically unsatd. polymerizable monomers other than those of (1) and (2); or (B) a blend of component A with at least one polymer other than that of component A; and wherein the film or sheet or extruded profile has a force relaxation in the cross direction or machine direction or both of greater than or equal to 40 percent. The present invention also pertains to a multilayer film or sheet or extruded profile comprising at least two layers wherein at least one of the layers is a film or sheet or extruded profile having a force relaxation in the cross direction or machine direction or both of greater than or equal to 40 percent, comprising; (A) at least one substantially random interpolmer, which comprises; (1) polymer units derived from; (i) at least one vinyl aromatic monomer, or (ii) at least one aliphatic or cycloaliph. vinyl or vinylidene monomer, or (iii) a combination of at least one aromatic vinyl monomer and at least one aliphatic or cycloaliph. vinyl or vinylidene monomer, and (2)

polymer units derived from at least one C2-20 α -olefin; and (3)
polymer units derived from one or more ethylenically unsatd. polymerizable
monomers other than those of (1) and (2); or (B) a blend of Component A
with at least one polymer other than that of Component A. An
ethylene-styrene copolymer was prepared using metallocene catalysts.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 37 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:761046 CAPLUS
DN 132:3943
TI Enlarged cell foams from blends of alkenyl aromatic polymers and
 α -olefin/vinyl or vinylidene interpolymers
IN Chaudhary, Bharat I.; Hood, Lawrence S.; Barry, Russell P.; Park, Chung P.
PA The Dow Chemical Company, USA
SO U.S., 16 pp.
CODEN: USXXAM
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5993707	A	19991130	US 1998-206028	19981204
	US 6355341	B1	20020312	US 1999-387014	19990831
	CA 2353093	AA	20000615	CA 1999-2353093	19991116
	WO 2000034365	A2	20000615	WO 1999-US27178	19991116
	WO 2000034365	A3	20000914		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP	1135431	A2	20010926	EP 1999-968043	19991116
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR	200102275	T2	20011221	TR 2001-200102275	19991116
JP	2002531658	T2	20020924	JP 2000-586806	19991116
NO	2001002693	A	20010723	NO 2001-2693	20010531
US	2002155270	A1	20021024	US 2002-51695	20020118
PRAI	US 1998-206028	A3	19981204		
	US 1999-387014	A3	19990831		
	WO 1999-US27178	W	19991116		

AB This invention pertains to a composition and a process for preparing a closed cell
alkenyl aromatic polymer foam having enlarged cell size, comprising one or
more alkenyl aromatic polymers, one or more substantially random
interpolymers, one or more blowing agents having zero ozone depletion
potential and optionally one or more co-blowing agents, and (or)
nucleating agents and additives. This combination allows the manufacture of
closed cell, low d. alkenyl aromatic polymer foams of enlarged cell size,
when blowing agents of relatively high nucleation potential are employed.
When such blowing agents are used with alkenyl aromatic polymers in the
absence of the substantially random interpolymers, small cell foams
result.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 38 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:705030 CAPLUS
DN 131:323718
TI Process for preparing thermoset elastomeric interpolymers and foams
IN McKay, Kevin W.; Timmers, Francis J.; Feig, Edwin R.; Ho, Thoi H.;
Karande, Seema V.
PA The Dow Chemical Company, USA
SO U.S., 27 pp., Cont.-in-part of U.S. 761,049, abandoned.
CODEN: USXXAM

DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5977271	A	19991102	US 1997-921642	19970827
	US 6111020	A	20000829	US 1998-116192	19980715
	CA 2300062	AA	19990304	CA 1998-2300062	19980826
	TR 200000515	T2	20001121	TR 2000-200000515	19980826
	BR 9814448	A	20011106	BR 1998-14448	19980826
	CN 1098287	B	20030108	CN 1998-810339	19980826
	NO 2000000963	A	20000426	NO 2000-963	20000225
PRAI	US 1994-300300	B3	19940902		
	US 1996-761049	B2	19961205		
	US 1996-761050	B2	19961205		
	US 1997-921641	A2	19970827		
	US 1997-921642	A2	19970827		
	WO 1998-US17673	W	19980826		

AB The subject invention provides a thermoset elastomer comprising a crosslinked pseudorandom or substantially random interpolymer of: (a) at least one α -olefin, (b) at least one vinylidene aromatic compound, and (c) optionally at least one diene, the polymer being prepared in the presence of a constrained geometry catalyst. The subject invention further provides a thermoplastic vulcanizate comprising the thermoset elastomers of the invention as provided in a thermoplastic polyolefin matrix. The subject invention further provides processes for preparing the inventive thermoset elastomers and thermoplastic vulcanizates, as well as parts fabricated therefrom. The inventive materials have a superior balance of properties, as compared to EPM and EPDM based materials. The subject invention also pertains to foams and methods for their preparation

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 39 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:614016 CAPLUS
DN 131:229866
TI Open-cell polystyrene foams from interpolymer blends
IN Park, Chung P.; Imeokparia, Daniel D.; Chaudhary, Bharat I.
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9947592	A1	19990923	WO 1999-US5706	19990315
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2324277	AA	19990923	CA 1999-2324277	19990315
	AU 9930919	A1	19991011	AU 1999-30919	19990315
	AU 747560	B2	20020516		
	US 6093752	A	20000725	US 1999-268585	19990315
	BR 9908944	A	20001114	BR 1999-8944	19990315
	EP 1068260	A1	20010117	EP 1999-912571	19990315
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, FI				
	TR 200002668	T2	20010221	TR 2000-200002668	19990315
	JP 2002506903	T2	20020305	JP 2000-536781	19990315
	TW 457265	B	20011001	TW 1999-88104081	19990601
	US 6174471	B1	20010116	US 2000-553306	20000420
	NO 2000004632	A	20001108	NO 2000-4632	20000915
PRAI	US 1998-78091P	P	19980316		
	US 1999-268585	A3	19990315		

WO 1999-US5706 W 19990315

AB The title foam is formed from a blend of polystyrene and an ethylene-styrene interpolpolymer. The ethylene-styrene interpolpolymer functions as a cell opening agent, and is used to control the open cell content of the resulting foam, which may contain >80 percent open cells. The foam is produced by an extrusion process in which CO2 is used as the preferred blowing agent. The resulting foams may be formed into beads, sheets, etc.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 40 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:595456 CAPLUS

DN 131:229983

TI Fibers and bicomponent fibers made from α -olefin/vinyl or vinylidene aromatic and/or hindered cycloaliphatic or aliphatic vinyl or vinylidene interpolymers and fabric articles

IN Turley, Robert R.; Stewart, Kenneth B.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9946435	A1	19990916	WO 1999-US5285	19990310
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	CA 2322569	AA	19990916	CA 1999-2322569	19990310
	AU 9929979	A1	19990927	AU 1999-29979	19990310
	AU 755566	B2	20021212		
	ZA 9901934	A	20000910	ZA 1999-1934	19990310
	EP 1068377	A1	20010117	EP 1999-911304	19990310
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	US 6190768	B1	20010220	US 1999-265793	19990310
	BR 9908804	A	20011030	BR 1999-8804	19990310
	JP 2002506145	T2	20020226	JP 2000-535790	19990310
	TW 538151	B	20030621	TW 1999-88103671	19990417
	NO 2000004500	A	20001031	NO 2000-4500	20000908
	NO 314769	B1	20030519		
PRAI	US 1998-77534P	P	19980311		
	WO 1999-US5285	W	19990310		

AB Fibers comprise (A) 50-100% (based on A and B) of ≥ 1 substantially random interpolpolymer having an melt index 0.1-1000 g/10 min, d. >0.9300 g/cm³, and mol. weight distribution 1.5-20; which comprises (1) 0.5-65 mol% units derived from (i) ≥ 1 vinyl or vinylidene aromatic monomer, or (ii) ≥ 1 hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, or (iii) a combination of (i) and (ii), and (2) 35-99.5 mol% units derived from ethylene or ≥ 1 C3-20 α -olefin or a combination; and (B) 0-50% of ≥ 1 tackifier. The fibers could have applications such as carpet fibers, elastic fibers, doll hair, personal/feminine hygiene applications, diapers, athletic sportswear, wrinkle free and form-fitting apparel, conductive fibers, upholstery, and medical applications including, but not restricted to, bandages, gamma sterilizable nonwoven fibers.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 41 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:595279 CAPLUS

DN 131:215192

TI Fabricated articles having shape memory made from blends of
 α -olefin/vinyl or vinylidene aromatic and/or hindered aliphatic
vinyl or vinylidene interpolymers
IN Hoenig, Steve M.; Turley, Robert R.; Cheung, Yunwa W.; Guest, Martin J.;
Diehl, Charles F.; Stewart, Kenneth B.; Sneddon, John
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9946327	A1	19990916	WO 1999-US5276	19990310
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2322571	AA	19990916	CA 1999-2322571	19990310
	AU 9930779	A1	19990927	AU 1999-30779	19990310
	ZA 9901938	A	20000910	ZA 1999-1938	19990310
	US 6156842	A	20001205	US 1999-265794	19990310
	EP 1062273	A1	20001227	EP 1999-912396	19990310
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	BR 9908806	A	20011218	BR 1999-8806	19990310
	JP 2002506105	T2	20020226	JP 2000-535700	19990310
	TW 479063	B	20020311	TW 1999-88103670	19990702
	NO 2000004499	A	20001108	NO 2000-4499	20000908
PRAI	US 1998-77633P	P	19980311		
	WO 1999-US5276	W	19990310		

AB Shape/reshape behavior is observed for compns. comprising (A) 1-100% (based on A and B) of ≥ 1 substantially random interpolymers having an melt index (I2) 0.1-1000 g/10 min and an mol. weight distribution, Mw/Mn, 1.5-20, of (1) 38-65 mol% units derived from (a) ≥ 1 vinyl or vinylidene aromatic monomer, or (b) ≥ 1 hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, or (c) combination of (a) and (b), and (2) 35-62 mol% units derived from ethylene and/or ≥ 1 C3-20 α -olefin; and (B) 0-99% ≥ 1 polymer other than component A, (C) 0-50% ≥ 1 tackifier, and (D) 0-80% ≥ 1 filler. Thus, ethylene-styrene interpolymers were processable into moldings and fibers with good shape memory.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 42 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:549276 CAPLUS
DN 131:185377
TI Catalyst activators comprising expanded anions for olefin polymerization
IN Lapointe, Robert E.
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9942467	A1	19990826	WO 1999-US3413	19990217
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2317774	AA	19990826	CA 1999-2317774	19990217
AU 9932980	A1	19990906	AU 1999-32980	19990217
AU 749065	B2	20020620		
BR 9908336	A	20001010	BR 1999-8336	19990217
EP 1056752	A1	20001206	EP 1999-934283	19990217
EP 1056752	B1	20030625		

R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE, FI

TR 200002404	T2	20010122	TR 2000-200002404	19990217
JP 2002504485	T2	20020212	JP 2000-532419	19990217
AT 243700	E	20030715	AT 1999-934283	19990217
CN 1120168	B	20030903	CN 1999-802921	19990217
ES 2196835	T3	20031216	ES 1999-934283	19990217
ZA 9901355	A	20000821	ZA 1999-1355	19990219
US 6716786	B1	20040406	US 2000-631654	20000803
NO 2000004135	A	20001018	NO 2000-4135	20000818
US 2001027161	A1	20011004	US 2001-823650	20010402
US 6395671	B2	20020528		
US 2002132729	A1	20020919	US 2002-97395	20020313
US 6462156	B2	20021008		
PRAI US 1998-75329P	P	19980220		
US 1999-251664	B1	19990217		
WO 1999-US3413	W	19990217		
US 1999-156242P	P	19990927		
US 2001-823650	A3	20010402		

AB A compound useful as a catalyst activator has formula (A*+a)b(Z*J*j)-cd, where A* = cation of charge +a, Z* = anion group of 1-50 atoms not counting H atoms, further containing ≥ 2 Lewis base sites; J* = Lewis acid coordinated to ≥ 1 Lewis base site of Z*, and optionally ≥ 2 J* groups may be joined together in a group having multiple Lewis acid functionality, j = 2-12 and a, b, c, and d = 1-3, with the proviso that a x b is c x d. Thus, ethylene and 1-octene were polymerized at 140° for 1 h in the presence of 1 part (t-butylamido)dimethyl(tetramethylcyclopentadienyl)silanetitanium (IV) di-Me catalyst and 1 part dioctadecylmethylammonium bis(tris(pentafluorophenyl)borane)imidazolidine cocatalyst.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 43 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:405031 CAPLUS

DN 131:45581

TI Seals from alpha-olefin/vinylidene aromatic and/or hindered aliphatic vinylidene interpolymers

IN Markovich, Ronald P.; Cheung, Yunwa W.; Guest, Martin J.; Gathers, John J.; De Lassus, Phillip T.

PA The Dow Chemical Company, USA

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9931176	A1	19990624	WO 1998-US26795	19981216
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
ZA 9811512	A	20000615	ZA 1998-11512	19981215
TW 432094	B	20010501	TW 1998-87120869	19981215
CA 2314994	AA	19990624	CA 1998-2314994	19981216
AU 9920871	A1	19990705	AU 1999-20871	19981216

EP 1040161	A1	20001004	EP 1998-965396	19981216
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE, FI				
BR 9812798	A	20001017	BR 1998-12798	19981216
JP 2002508423	T2	20020319	JP 2000-539087	19981216
NO 2000003072	A	20000810	NO 2000-3072	20000615
PRAI US 1997-991836	A2	19971216		
WO 1998-US26795	W	19981216		

AB The title seals including container closure liners, gaskets, and barrier membranes, comprise a polymer composition having an O transmission coefficient of .ltorsim.300 cm3.mil/100 in2.day.atmospheric (1.2 cm3/cm.day.MPa) at 25°; the polymer composition comprises at least one substantially random interpolymer (or a blend comprising at least one substantially random interpolymer and at least one other polymer) and ≤80% (based on the total weight of the composition) of at least one filler. A typical composition contains an ethylene-styrene copolymer blended with atactic polystyrene (prepared using (tert-butylamido)dimethyl(tetramethyl-η5-cyclopentadienyl)silanetitanium di-Me metallocene catalyst). Sealing systems from the interpolymers, e.g., bottle caps, exhibit low O permeability, low Shore A hardness, and excellent tensile strain recovery.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 44 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:325988 CAPLUS
DN 130:353080

TI Aqueous dispersions or emulsions of interpolymers of alpha-olefin/hindered aromatic vinylidene and use in coatings
IN Oates, John D.; Czerepinski, Ralph G.; Hoenig, Wendy D.; Kernstock, John M.; Walther, Brian W.; Bethea, James R.
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 45 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9924492	A1	19990520	WO 1998-US24171	19981112
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2309821	AA	19990520	CA 1998-2309821	19981112
AU 9915228	A1	19990531	AU 1999-15228	19981112
EP 1030874	A1	20000830	EP 1998-959429	19981112
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, FI				
BR 9814179	A	20000926	BR 1998-14179	19981112
JP 2001522911	T2	20011120	JP 2000-520497	19981112
PRAI US 1997-65390P	P	19971112		
WO 1998-US24171	W	19981112		

OS MARPAT 130:353080

AB Film-forming, aqueous dispersions comprise ≥1 substantially random interpolymer of (A) units derived from (1) ≥1 vinylidene aromatic monomer, or (2) ≥1 hindered aliphatic or cycloaliph. vinylidene monomer, or (3) a combination of ≥1 aromatic vinylidene monomer and ≥1 hindered aliphatic or cycloaliph. vinylidene monomer, and (4) ≥1 C2-20 α-olefin; and (B) a surfactant. The aqueous dispersions or emulsions are useful as barrier paper coatings, corrosion resistance coatings, carpet backing and carpet fiber binders, in some instances, precursors for high mol. weight polymers, composites and membranes for separation systems, coatings and binders for paints, inks, moisture barriers in packaging, fabric coatings, synthetic gloves, adhesives, foams, composite flooring tiles and layers, sound deadening composite foams and pads, automotive protective exterior coatings, and removable temporary protective coatings. Thus, ethylene and styrene were polymerized in the

presence of dimethyl[N-(1,1-dimethylethyl)-1,1-dimethyl-1-[(1,2,3,4,5- η)-1,5,6,7-tetrahydro-3-phenyl-s-indacen-1-yl]silanaminato(2-)-N] titanium and tris(pentafluorophenyl)borane. Ethylene-styrene copolymer latex showed excellent phys. properties and resistance to corrosives.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 45 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:286026 CAPLUS
DN 130:312602

TI Compositions of interpolymers of α -olefin monomers with one or more vinyl or vinylidene aromatic monomers
IN Babinec, Susan J.; Blanchard, Mechelle A.; Guest, Martin J.; Walther, Brian W.; Chaudhary, Bharat I.; Barry, Russell P.
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 103 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9920685	A1	19990429	WO 1998-US21699	19981015
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2304674	AA	19990429	CA 1998-2304674	19981015
	AU 9910859	A1	19990510	AU 1999-10859	19981015
	EP 1023370	A1	20000802	EP 1998-953506	19981015
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	TR 200000992	T2	20001121	TR 2000-200000992	19981015
	JP 2001520291	T2	20011030	JP 2000-517014	19981015
	US 6380294	B1	20020430	US 1998-173381	19981015
	ZA 9809464	A	20000417	ZA 1998-9464	19981016
	NO 2000001865	A	20000614	NO 2000-1865	20000411
	MX 200003763	A	20001020	MX 2000-3763	20000417
	US 2002132905	A1	20020919	US 2002-90690	20020305
PRAI	US 1997-62305P	P	19971017		
	US 1998-173381	A1	19981015		
	WO 1998-US21699	W	19981015		

AB A blend of polymeric materials comprises: (A) from 1 to 99.99 weight percent based on the combined wts. of Components A, B and C of at least one substantially random interpolymers; and wherein the interpolymers: (1) contains from 0.5 to 65 mol percent of polymer units derived from: (a) at least one vinyl or vinylidene aromatic monomer, or (b) at least one hindered aliphatic or cycloaliph. vinyl or vinylidene monomer, or (c) a combination of at least one vinyl or vinylidene aromatic monomer and at least one hindered aliphatic or cycloaliph. vinyl or vinylidene monomer; (2) contains from 35 to 99.5 mol percent of polymer units derived from at least one aliphatic α -olefin having from 2 to 20 carbon atoms; (3) has a mol. weight (Mn) greater than 1,000; (4) has a melt index (I2) from 0.01 to 1,000; (5) has a mol. weight distribution (Mw/Mn) from 1.5 to 20; and (B) from 99 to 0.01 weight percent based on the combined wts. of Components A, B, and C of one or more conductive additives and/or one or more additives with high magnetic permeability; and (C) from 0 to 98.99 weight percent based on the combined wts. of Components A, B, and C of one or more polymers other than A. The polymers are typically prepared using metallocene catalysts.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 46 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:271420 CAPLUS
DN 130:297435

TI Thermoplastic blends of copolymers of α -olefins with at least 1 vinyl or vinylidene aromatic compound and(or) at least 1 hindered aliphatic or cycloaliphatic vinyl or vinylidene compounds with vinyl halide homo- or copolymers
 IN Cheung, Yunwa W.; Guest, Martin J.
 PA The Dow Chemical Company, USA
 SO PCT Int. Appl., 53 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9919398	A1	19990422	WO 1998-US21843	19981015
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6136923	A	20001024	US 1997-950983	19971015
	ZA 9809380	A	20000404	ZA 1998-9380	19981014
	CA 2304679	AA	19990422	CA 1998-2304679	19981015
	AU 9910922	A1	19990503	AU 1999-10922	19981015
	TR 200000968	T2	20000721	TR 2000-200000968	19981015
	EP 1023385	A1	20000802	EP 1998-953586	19981015
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	BR 9813046	A	20000815	BR 1998-13046	19981015
	JP 2001520247	T2	20011030	JP 2000-515962	19981015
	NO 2000001864	A	20000519	NO 2000-1864	20000411
PRAI	US 1997-950983	A	19971015		
	WO 1998-US21843	W	19981015		

AB The present invention relates to blend compns. comprising: (A) of from 1 to 99 weight percent based on the combined wts. of Components A, B and C of at least one substantially random interpolmer; and wherein said interpolmer: (1) contains of from 0.5 to 65 mol percent of polymer units derived from: (a) at least one vinyl or vinylidene aromatic monomer, or (b) at least one hindered aliphatic vinyl or vinylidene monomer, or (c) a combination of at least one vinyl or vinylidene aromatic monomer and at least one hindered aliphatic vinyl or vinylidene monomer; (2) contains of from 35 to 99.5 mol percent of polymer units derived from at least one aliphatic α -olefin having from 2 to 20 carbon atoms; (3) has a mol. weight (Mn) greater than 1,000; (4) has a melt index (I2) of from 0.01 to 1,000; (5) has a mol. weight distribution (Mw/Mn) of from 1.5 to 20; and (6) are prepared with metallocene or constrained geometry catalysts; and (B) of from 99 to 1 weight percent based on the combined wts. of Components A, B and C of one or more vinyl halide homopolymer(s) or copolymer(s); and (C) of from 0 to 70 weight percent based on the combined wts. of Components A, B and C of one or more plasticizers. The novel blend compns. provide materials with improved processing/property attributes over the unmodified polymers comprising the blends. The blend compns. exhibit a unique balance of properties including enhanced modulus and barrier properties, improved tensile strength, radio frequency (rf) sealability, solvent bondability, thermal stability and heat resistance depending upon the selection of the individual blend components and their composition ratios. Addnl., the location and the breadth of the glass transition can be controlled by varying the blend compns. and plasticizer level. Surprisingly blends including a plasticizer show a single phase material from glass transition temperature data anal.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 47 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1999:166657 CAPLUS
 DN 130:210682
 TI Crosslinked random interpolmer compositions, thermosetting interpolmers,

thermoplastic and thermosetting vulcanizates, foams thereof and articles therefrom

IN McKay, Kevin W.; Timmers, Francis J.; Feig, Edwin R.; Ho, Thoi H.;
Karande, Seema V.
PA The Dow Chemical Company, USA
SO PCT Int. Appl., 106 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9910395	A1	19990304	WO 1998-US17673	19980826
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 5869591	A	19990209	US 1997-921641	19970827
	CA 2300062	AA	19990304	CA 1998-2300062	19980826
	AU 9889209	A1	19990316	AU 1998-89209	19980826
	EP 1007577	A1	20000614	EP 1998-941063	19980826
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001514275	T2	20010911	JP 2000-507718	19980826
	BR 9814448	A	20011106	BR 1998-14448	19980826
	NO 2000000963	A	20000426	NO 2000-963	20000225
PRAI	US 1997-921641	A	19970827		
	US 1997-941642	A	19970827		
	US 1994-300300	B1	19940902		
	US 1996-761050	B2	19961205		
	US 1997-921642	A	19970827		
	WO 1998-US17673	W	19980826		

AB A thermoset elastomer comprises a crosslinked pseudorandom or substantially random interpolymers of (a) 15-70 weight% of ≥ 1 α -olefin, (b) 30-70 weight% of ≥ 1 vinylidene aromatic compound, and (c) 0-15 weight% of ≥ 1 diene. The invention also provides a thermoplastic vulcanizate of the thermoset elastomers in a thermoplastic polyolefin matrix and processes for preparing the thermoset elastomers and thermoplastic vulcanizates, as well as foams and fabricated parts. The materials have a superior balance of properties, as compared to EPM- and EPDM-based materials. Thus, a 48.0:52.0 pseudorandom linear ethylene-styrene interpolymers (I) was prepared using (tert-butylamido)dimethyl-(tetramethyl- η 5-cyclopentadienyl)silane dimethyltitanium(IV) and tris(pentafluorophenyl)borane as catalysts, having tensile at break 1390 psi, 100% modulus 256 psi, elongation at break 518%, and melt index at 190° 10.2 g/10 min. The I was compounded with a typical rubber curing composition giving green tensile at break 594 psi, 100% modulus 315 psi, and elongation at break 453%, compared with 70, 52, and 84, resp., for Vistalon 457 (51.0:49.0 ethylene-propene rubber). The crosslinked I showed tensile at break 1005 psi, 100% modulus 532 psi, and elongation at break 297%, compared with 1236, 276, and 409, resp., for the Vistalon 457.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 48 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:109404 CAPLUS
DN 130:169360
TI Thermoset interpolymers of olefin and vinylidene aromatic compounds, their blends to make thermoplastic vulcanizate, and their use in fabricated parts and foams
IN McKay, Kevin W.; Timmers, Francis J.; Feig, Edwin R.; Ho, Thoi H.;
Karande, Seema V.
PA The Dow Chemical Company, USA
SO U.S., 28 pp., Cont.-in-part of U.S. Ser. No. 761,050, abandoned.

CODEN: USXXAM

DT Patent
LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5869591	A	19990209	US 1997-921641	19970827
	US 6111020	A	20000829	US 1998-116192	19980715
	CA 2300062	AA	19990304	CA 1998-2300062	19980826
	WO 9910395	A1	19990304	WO 1998-US17673	19980826
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9889209	A1	19990316	AU 1998-89209	19980826
	ZA 9807755	A	20000228	ZA 1998-7755	19980826
	EP 1007577	A1	20000614	EP 1998-941063	19980826
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	TR 200000515	T2	20001121	TR 2000-200000515	19980826
	JP 2001514275	T2	20010911	JP 2000-507718	19980826
	BR 9814448	A	20011106	BR 1998-14448	19980826
	CN 1098287	B	20030108	CN 1998-810339	19980826
	NO 2000000963	A	20000426	NO 2000-963	20000225
PRAI	US 1994-300300	B1	19940902		
	US 1996-761050	B2	19961205		
	US 1996-761049	B2	19961205		
	US 1997-921641	A2	19970827		
	US 1997-921642	A2	19970827		
	US 1997-941642	A	19970827		
	WO 1998-US17673	W	19980826		
AB	A thermoset elastomer comprises a crosslinked pseudorandom or substantially random interpolymers of (a) ≥ 1 α -olefin 15-70, (b) ≥ 1 vinylidene aromatic compound 30-70, and (c) ≥ 1 diene 0-15%. The thermoplastic vulcanizate comprises the thermoset elastomers in a thermoplastic polyolefin matrix.				

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 49 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:723813 CAPLUS

DN 130:4186

TI Random ethylene/ α -olefin/diene interpolymers and their preparation and indenyl ligand-metallocene catalyst systems therefor

IN Mangold, Debra J.; Vanderlende, Daniel D.; Kale, Lawrence T.; Parikh, Deepak R.

PA The Dow Chemical Co., USA; Dupont Dow Elastomers L.L.C.

SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9849212	A1	19981105	WO 1997-US7252	19970430
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2287963	AA	19981105	CA 1997-2287963	19970430
	AU 9728196	A1	19981124	AU 1997-28196	19970430
	EP 981556	A1	20000301	EP 1997-922557	19970430

R: AT, BE, DE, DK, ES, FR, GB, IT, NL

CN 1254350	A	20000524	CN 1997-182141	19970430
BR 9714988	A	20010918	BR 1997-14988	19970430
JP 2001522398	T2	20011113	JP 1998-546920	19970430
MX 9909023	A	20000731	MX 1999-9023	19991001

PRAI WO 1997-US7252

A 19970430

OS MARPAT 130:4186

AB Random ethylene- α -olefin-diene interpolymers with an α -olefin distribution that is more clustered than Bernoullian are prepared using a group 4 metal constrained geometry complex catalyst and an activating cocatalyst. The catalyst includes a fused-ring indenyl derivative ligand. Thus, a 44.3:7.5:48.2 ethylene-5-ethylidene-2-norbornene-propene copolymer (I, Mw 132,500, MWD 1.98) was prepared at 90.7° using (tert-butylamido)dimethyl(η 5-2-methyl-s-indacen-1-yl)silanetitanium(IV) di-Me (II) (preparation given) and tris(pentafluorophenyl)borane with catalyst efficiency 2.16 million lb/lb Ti, compared with catalyst efficiency 0.87 for a 44.1:4.5:51.4 I (Mw 51,300, MWD 1.85) prepared using (tetramethylcyclopentadienyl)dimethyl(tert-butylamido)silanetitanium 1,3-pentadiene instead of II.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 50 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:723812 CAPLUS

DN 130:14329

TI Olefin polymers prepared with substituted indenyl containing metal complexes

IN Kale, Lawrence T.; Vanderlende, Daniel D.; Nickias, Peter N.; Patton, Jasson T.; Stevens, James C.; Parikh, Deepak R.; Mangold, Debra J.

PA The Dow Chemical Co., USA

SO PCT Int. Appl., 136 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9849211	A1	19981105	WO 1998-US8859	19980501
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ZA 9803672	A	19991101	ZA 1998-3672	19980430
CA 2288893	AA	19981105	CA 1998-2288893	19980501
AU 9871739	A1	19981124	AU 1998-71739	19980501
AU 742617	B2	20020110		
EP 977787	A1	20000209	EP 1998-918908	19980501
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9808704	A	20000711	BR 1998-8704	19980501
TR 9902884	T2	20000921	TR 1999-9902884	19980501
JP 2001522399	T2	20011113	JP 1998-547435	19980501
RU 2200169	C2	20030310	RU 1999-125328	19980501
CN 1112383	B	20030625	CN 1998-805626	19980501
NO 9905294	A	19991229	NO 1999-5294	19991029
MX 9910059	A	20000331	MX 1999-10059	19991101
PRAI US 1997-45348P	P	19970501		
US 1997-45410P	P	19970501		
WO 1998-US8859	W	19980501		

OS MARPAT 130:14329

AB The subject invention is directed to an olefin polymer produced by polymerizing at least one α -olefin in the presence of a Group 4 metal complex comprising an indenyl group substituted in the 2 or 3 position with at least one group selected from hydrocarbyl, perfluoro-substituted hydrocarbyl, silyl, germlyl and mixts. thereof, said indenyl group further

being covalently bonded to the metal by means of a divalent ligand group, wherein the divalent ligand comprises nitrogen or phosphorus having an aliphatic or alicyclic hydrocarbyl group covalently bonded thereto via a primary or secondary carbon. Preferred olefin polymers of the invention will be characterized as having a high mol. weight, narrow mol. weight distribution, high vinyl content, and a bimodal DSC melting curve or a deconvoluted anal.-temperature-rising-elution-fractionation or GPC curve which shows at least two distinct narrow peaks. A typical catalyst was manufactured by reaction of dimethylsilyl(2,3,4-tetramethylindenyl) chloride with isopropylamine in THF, reaction of the intermediate with BuLi in hexane, reaction of the 2nd intermediate with TiCl₃ in THF, and reaction of the 3rd intermediate with MeMgCl in Et₂O-THF mixture

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 51 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:708873 CAPLUS
DN 129:331536
TI Compositions of olefin copolymers containing slip and antiblock agents for clear (laminate) films or sheets
IN Mergenhausen, Laura K.; Simmons, Brian E.; Wevers, Ronald; Fehr, Bernard; Van Volkenburgh, William R.
PA The Dow Chemical Co., USA; Van Volkenburgh, William R.
SO PCT Int. Appl., 98 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9846672	A2	19981022	WO 1998-US7650	19980415
	WO 9846672	A3	19990114		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	CA 2284604	AA	19981022	CA 1998-2284604	19980415
	AU 9869740	A1	19981111	AU 1998-69740	19980415
	ZA 9803157	A	19991015	ZA 1998-3157	19980415
	EP 975695	A2	20000202	EP 1998-915601	19980415
	R:	AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE, FI			
	TW 387920	B	20000421	TW 1998-87105751	19980415
	BR 9809570	A	20001017	BR 1998-9570	19980415
	JP 2001520697	T2	20011030	JP 1998-544281	19980415
	MX 9909521	A	20000228	MX 1999-9521	19991015
PRAI	US 1997-43954P	P	19970416		
	US 1997-69705P	P	19971216		
	WO 1998-US7650	W	19980415		

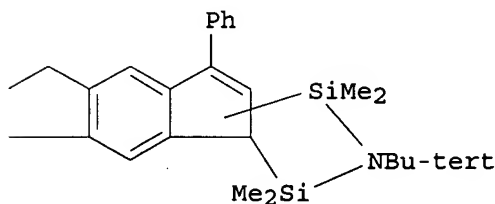
OS MARPAT 129:331536

AB Resin compns. (for films for packaging sealants) comprise a homogeneous ethylene/ α -olefin interpolymer; and a saturated fatty acid amide or saturated ethylenebis(amide), unsatd. fatty acid amide or unsatd. ethylenebis(amide), and a finely divided inorg. compound. The compns. comprise a substantially random interpolymer of ≥ 1 α -olefins with ≥ 1 vinylidene aromatic monomers and/or ≥ 1 hindered aliphatic or cycloaliph. vinylidene monomers or blends, slip agents, addnl., ≥ 1 modifying agent of propylene homopolymers, propylene copolymers, nucleating agents, and mixts. Thus, a blend of Affinity PL 1880 (d. 0.9110 g/cm³; metallocene catalyzed), 1500 ppm erucamide, 250 ppm stearamide, 2500 ppm SiO₂ was formed into a blown film (2 mil thickness) having blocking (good <49 g) 45.4 g and coefficient of friction (good <0.31) 0.25.

L4 ANSWER 52 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:424259 CAPLUS

DN 129:122972
 TI Fused ring substituted indenyl metal complexes and polymerization process
 IN Mcadon, Mark H.; Nickias, Peter N.; Patton, Jasson T.; Shankar, Ravi B.;
 Timmers, Francis J.; Vanderlende, Daniel D.; Kolthammer, Brian W. S.;
 Ueligger, Steven M.
 PA Dow Chemical Co., USA
 SO PCT Int. Appl., 68 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9827103	A1	19980625	WO 1997-US21585	19971121
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5965756	A	19991012	US 1997-949505	19971014
	CA 2268440	AA	19980625	CA 1997-2268440	19971121
	AU 9853626	A1	19980715	AU 1998-53626	19971121
	AU 726100	B2	20001102		
	EP 946575	A1	19991006	EP 1997-950689	19971121
	EP 946575	B1	20011010		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE, FI				
	CN 1237976	A	19991208	CN 1997-199909	19971121
	CN 1093543	B	20021030		
	BR 9714571	A	20000328	BR 1997-14571	19971121
	JP 2000507959	T2	20000627	JP 1998-527719	19971121
	JP 3427302	B2	20030714		
	AT 206713	E	20011015	AT 1997-950689	19971121
	ES 2162339	T3	20011216	ES 1997-950689	19971121
	ZA 9711382	A	19990618	ZA 1997-11382	19971218
	TW 513448	B	20021211	TW 1997-86119201	19971218
	US 6034022	A	20000307	US 1999-325049	19990603
	NO 9902993	A	19990618	NO 1999-2993	19990618
PRAI	US 1996-34817P	P	19961219		
	US 1997-949505	A	19971014		
	WO 1997-US21585	W	19971121		
OS	MARPAT 129:122972				
GI					



AB Group 4 metal constrained geometry complexes in combination with an activating cocatalyst are highly efficient in the polymerization of olefins over a wide range of polymerization conditions and especially at elevated temps. Thus, dimethyl [N-(1,1-dimethylethyl)-1,1-dimethyl-[(1,2,3,4,5-η)-1,5,6,7-tetrahydro-2-methyl-3-phenyl-s-indacen-1-yl]silanaminato(2-)-N]titanium having the structure I and the cocatalyst tris(pentafluorophenyl)borane as 0.005 M solns. in toluene were mixed to give a molar ratio of 1:1. A reactor was charged with 360 g Isopar E mixed alkanes solvent and 460 g styrene and hydrogen was added as a mol. weight control agent. After heating the mixture to 90°, ethylene, at 200 psig., and the catalyst solution were added, and polymerization conditions were maintained for 30 min. The catalyst efficiency was 102 kg polymer/g Ti.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 53 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:175973 CAPLUS
DN 128:217984
TI Blends of interpolymers of α -olefins, aromatic vinylidene monomers,
and/or hindered aliphatic or cycloaliphatic vinylidene monomers
IN Guest, Martin J.; Cheung, Yunwa W.; Gathers, John J.; Chum, Pak-Wing S.
PA Dow Chemical Company, USA; Guest, Martin J.; Cheung, Yunwa W.; Gathers,
John J.; Chum, Pak-Wing S.
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9810018	A1	19980312	WO 1997-US15546	19970904
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	ZA 9707908	A	19990303	ZA 1997-7908	19970903
	TW 421663	B	20010211	TW 1997-86112680	19970903
	CA 2264731	AA	19980312	CA 1997-2264731	19970904
	AU 9741804	A1	19980326	AU 1997-41804	19970904
	AU 719264	B2	20000504		
	EP 923620	A1	19990623	EP 1997-939791	19970904
	R:	AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE, FI			
	CN 1234816	A	19991110	CN 1997-199185	19970904
	JP 2000507641	T2	20000620	JP 1998-512878	19970904
	JP 3371126	B2	20030127		
	BR 9711686	A	20020219	BR 1997-11686	19970904
	NO 9901054	A	19990423	NO 1999-1054	19990303
PRAI	US 1996-707784	A2	19960904		
	WO 1997-US15546	W	19970904		

AB A blend of polymeric material is characterized by comprising a plurality of interpolymers, each resulting from polymerizing (1) 0.5-65 mol% of either (a) at least one aromatic vinylidene monomer or (b) at least one hindered aliphatic or cycloaliph. vinylidene monomer, or (c) a combination of at least one vinylidene aromatic monomer and at least one hindered aliphatic vinylidene monomer, (2) 35-99 mol% of at least one C2-20 aliphatic α -olefin, and (3) 0-10 mol% of other olefin monomers. wherein interpolymer components differ in that (i) the amount of vinylidene aromatic monomer residue and/or hindered aliphatic or cycloaliph. vinylidene monomer residue in any interpolymer component differs from another by at least 0.5 mol percent; and/or (ii) there is a difference of at least 20 percent between the number average mol. weight (Mn) of interpolymer components. The interpolymer components differ in that (i) the amount of vinylidene aromatic monomer residue and/or hindered aliphatic or cycloaliph. vinylidene monomer residue in any interpolymer component differs from another by ≥ 0.5 mol%; and/or (ii) there is a difference of $\geq 20\%$ between the number average mol. weight (Mn) of interpolymer components. These blends of interpolymer components give enhanced properties or processability when compared to the individual polymers comprising the blend.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 54 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:175955 CAPLUS
DN 128:217746
TI Alpha-olefin/vinylidene aromatic monomer and/or hindered aliphatic or cycloaliphatic vinylidene monomer interpolymers with increased modulus
IN Campbell, Richard E., Jr.; McAdon, Mark H.; Nickias, Peter N.; Patton,

Jasson T.; Redwine, Oscar D.; Timmers, Francis J.
 PA Dow Chemical Company, USA; Campbell, Richard E., Jr.; McAdon, Mark H.;
 Nickias, Peter N.; Patton, Jasson T.; Redwine, Oscar D.; Timmers, Francis
 J.
 SO PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9809999	A2	19980312	WO 1997-US15559	19970904
	WO 9809999	A3	19980430		
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	ZA 9707907	A	19990303	ZA 1997-7907	19970903
	TW 473503	B	20020121	TW 1997-86112679	19970903
	CA 2264894	AA	19980312	CA 1997-2264894	19970904
	AU 9741810	A1	19980326	AU 1997-41810	19970904
	EP 923612	A2	19990623	EP 1997-939797	19970904
	EP 923612	B1	20030416		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE, FI				
	CN 1232476	A	19991020	CN 1997-198572	19970904
	CN 1096475	B	20021218		
	JP 2001500180	T2	20010109	JP 1998-512885	19970904
	BR 9711675	A	20020102	BR 1997-11675	19970904
	AT 237649	E	20030515	AT 1997-939797	19970904
	ES 2197362	T3	20040101	ES 1997-939797	19970904
	US 6191245	B1	20010220	US 1999-254251	19990302
PRAI	US 1996-708869	A2	19960904		
	WO 1997-US15559	W	19970904		

OS MARPAT 128:217746

AB The title polymers comprise α -olefin/vinylidene aromatic monomer and/or hindered (cyclo)aliphatic vinylidene monomers containing ≥ 1 tetrad sequences consisting of α -olefin/vinylidene aromatic monomer or hindered (cyclo)aliphatic monomer/vinylidene aromatic monomer or hindered (cyclo)aliphatic vinylidene monomer/ α -olefin insertions detectable by ^{13}C -NMR spectroscopy, wherein the monomer insertion of the tetrads occur exclusively in a 1,2 (head-to-tail) manner. In particular, ethylene/styrene copolymers have peaks in the ^{13}C -NMR spectra in the chemical shift range 43.70-44.25 ppm, preferably 43.75-44.25 ppm and 38.0-38.5 ppm, said peaks being at least three times the peak to peak noise. The interpolymers are prepared by polymerizing the appropriate mixture of monomers in the presence of a catalyst such as rac-[dimethylsilanediyl(2-methyl-4-phenylindenyl)]zirconium dichloride.

L4 ANSWER 55 OF 55 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:126260 CAPLUS

DN 128:167818

TI Heteroatom-substituted cyclopentadienyl-containing metal complexes, their preparation and use for olefin polymerization

IN Klosin, Jerzy; Kruper, William J., Jr.; Nickias, Peter N.; Patton, Jasson T.; Wilson, David R.

PA Dow Chemical Company, USA

SO PCT Int. Appl., 217 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9806727	A1	19980219	WO 1997-US13170	19970728
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 LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN,
 YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
 GN, ML, MR, NE, SN, TD, TG

CA 2262910	AA	19980219	CA 1997-2262910	19970728
AU 9741456	A1	19980306	AU 1997-41456	19970728
AU 719500	B2	20000511		
EP 923589	A1	19990623	EP 1997-939348	19970728
EP 923589	B1	20040915		
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BR 9711124	A	19990928	BR 1997-11124	19970728
CN 1230190	A	19990929	CN 1997-197837	19970728
CN 1114609	B	20030716		
NZ 333878	A	20000825	NZ 1997-333878	19970728
JP 2000516228	T2	20001205	JP 1998-509759	19970728
JP 3407074	B2	20030519		
RU 2196776	C2	20030120	RU 1999-104650	19970728
AT 276263	E	20041015	AT 1997-939348	19970728
ES 2224266	T3	20050301	ES 1997-939348	19970728
TW 455595	B	20010921	TW 1997-86111317	19970807
EG 21365	A	20010930	EG 1997-779	19970809
CA 2265515	AA	19980625	CA 1997-2265515	19971017
WO 9827102	A1	19980625	WO 1997-US19463	19971017

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 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
 UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
 GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
 GN, ML, MR, NE, SN, TD, TG

AU 9851521	A1	19980715	AU 1998-51521	19971017
AU 726123	B2	20001102		
EP 946574	A1	19991006	EP 1997-946326	19971017
EP 946574	B1	20020213		
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BR 9712535	A	19991019	BR 1997-12535	19971017
CN 1233253	A	19991027	CN 1997-198859	19971017
CN 1094129	B	20021113		
JP 2001506260	T2	20010515	JP 1998-527680	19971017
AT 213250	E	20020215	AT 1997-946326	19971017
ES 2168681	T3	20020616	ES 1997-946326	19971017
RU 2186073	C2	20020727	RU 1999-116006	19971017
TW 397845	B	20000711	TW 1997-86119200	19971218
US 6268444	B1	20010731	US 1999-230185	19990115
NO 9900545	A	19990326	NO 1999-545	19990205
KR 2000029833	A	20000525	KR 1999-700985	19990205
NO 9901816	A	19990416	NO 1999-1816	19990416
KR 2000049229	A	20000725	KR 1999-703332	19990416

PRAI US 1996-23768P P 19960808
 US 1996-34819P P 19961219
 WO 1997-US13170 W 19970728
 WO 1997-US19463 W 19971017

OS MARPAT 128:167818

AB The metal complexes contain a heteroatom-Cp bond or a ring heteroatom-Cp bond in the 3-position of the Cp. In preferred metal complexes the ligand is a 3-heteroatom substituted indenyl group. These catalyst systems for olefin polymerization may be used at high temps., are highly active and produce high mol. weight polymer. C₂H₄ and 1-octene were polymerized at 140° in mixed alkane in the presence of B(C₆F₅)₃ and catalyst (N-(1,1-dimethylethyl)-1,1-dimethyl-1((1,2,3,3a,7a-η)-3-(1-pyrrolidinyl)-1H-inden-1-yl)silanaminato(2-)-N)dimethyltitanium (preparation given).

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/520,370

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	492	(556/11).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/07 13:50
L2	482	(556/19).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/07 14:49
L3	520	(556/12).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/07 15:16
L4	443	(556/21).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/07 16:22
L5	316	(556/22).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/07 16:41
L6	2290	(526/160).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/07 17:27
L7	1889	(502/103).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/07 18:01
L8	1946	(526/943).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/07 18:01

10/520,378

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L2	1984	(502/152).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/08 15:08
L3	602	(526/126).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/11/08 15:08